

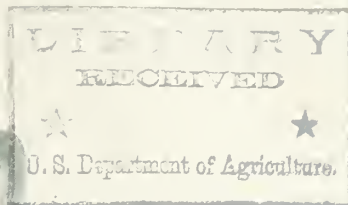
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# The SPRING BOOK 1920



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Randall McLoughlin



WE HAVE BEEN ASKED  
a great many times the  
meaning of "INVICTA," and we  
believe that here is an appropriate  
place to explain it to those who  
are interested.

INVICTA MEANS INVINCIBLE, in  
plain American UNBEATABLE.  
This is what we aim to make  
everything that bears the name  
INVICTA.





"Make new friends  
and keep the old."

## THE SPRING BOOK

**I**N preparing the Spring Book we have in mind an effort to accomplish on paper what we cannot in every case do in the flesh. That is to, as far as is humanly possible, bring our personality to our friends and make them feel that, although in many cases we cannot meet them and talk with them, we are real, living persons, interested in their needs, anxious and ready to serve them to the limit of our ability.

Last season we felt that we should apologize for the incompleteness of our Spring issue of the Farm and Garden Book for the reason that there were many items that we would have liked to have included in that issue, but could not do so. In the first place, our facilities for handling a large line of supplies were entirely too limited, and our resources were more so.

This season we make no apologies. We have taken time by the forelock and have left nothing undone to bring together the very best that is to be found in our line, for we contend that the great public wants the best that there is to be had, and working on this thesis we have gone the limit.

Added to this, we have erected and equipped a splendid manufacturing building at Westlake Avenue and Harrison Street that places us at the head of the line in this particular. We have also expanded our down-town store at Madison Street and Western Avenue, now occupying the whole double corner.

These expansions have been made possible by your hearty support, which we have endeavored to merit, and which we intend to retain by keeping your confidence.

We invite you to glance particularly over the specials in our seed list, for we believe that it is the first time that such a varied and excellent collection of garden seeds have been brought together in the Northwest. All experienced gardeners know the excellence of Kelway's Seeds, for they stand in a class by themselves. Kelways produce no cheap seeds.

We also call your attention to our complete line of Poultry Foods and Supplies. We are now making all of our Poultry Foods and many of our Remedies. To this we have added Spratt's complete line of Poultry, Dog, Pheasant and Cage Bird Remedies, which is standard, and too well known to need description.

It is our intention to give satisfaction in every way. If you are pleased with our treatment we would like to know it. If you are not satisfied with our service we especially wish to know it to enable us to correct the fault. In all cases our policy will always be

**YOUR MONEY'S WORTH OR YOUR MONEY BACK.**

# Randall-McLoughlin

WHERE THE MADISON CABLE STARTS  
MADISON AT WESTERN

TELEPHONE ELLIOTT 5156

WAREHOUSE  
302, 204 AND 306 WESTLAKE NORTH

SEATTLE, WASHINGTON

FACTORY AND OFFICE  
320 WESTLAKE NORTH

TELEPHONE ELLIOTT 2597



## MAIL ORDERS

## Suggestions That Will Assist Us in Filling Orders Satisfactorily

**ORDER EARLY.** Avoid disappointment to yourself, and assist us greatly, by ordering as early in spring as is possible. During the spring rush there is bound to be some confusion and delay; also, the particular varieties which you wish may be sold out.

**USE OUR ORDER SHEETS.** Please use the order sheets which are enclosed with this catalog. Otherwise the orders must be rewritten by us, causing delay and chance for error. Additional sheets will be mailed on request.

**WRITE NAME, ADDRESS AND SHIPPING INSTRUCTIONS IN PROPER SPACES VERY DISTINCTLY.** This information is often lacking or illegible, and we are unable to fill the orders until complaint is received.

**CORRESPONDENCE.** If it is necessary to write a letter with the order, please write it on separate paper. Nothing but the order and shipping instructions should be written on the order sheet.

**REMITTANCE.** Remittance should be made by Post Office Money Order, Express Money Order, Bank Draft, or Registered Letter. Postage Stamps are convenient for small amounts, but we cannot be responsible for stamps or coin lost in the mails.

**TERMS.** Unless you are favorably rated in Dun's or Bradstreet's, or have previously arranged with our treasurer for an account, our terms are strictly cash with order in all cases. Please do not ask us to ship goods C. O. D. It is a very unsatisfactory method for all concerned, and causes much unnecessary labor and expense.

**PRICES.** Our prices are as low as is consistent with the quality of goods furnished, and there are no discounts or premiums of any kind. Prices of some of the goods shown in this catalog are subject to market changes, and such changes will be shown in price lists which we will publish from time to time and will mail on request.

**QUANTITY PRICES.** Market gardeners and others requiring seeds in very large quantities will please write for special quantity prices, stating varieties and quantities wanted.

**DELIVERY.** Prices do not include postage or freight charges except when so stated. We make no charge for packing or for delivery to post office or freight houses.

**SEATTLE DELIVERIES.** To all accessible points within the limits of the city of Seattle we deliver at the very reasonable rate of 20c per 100 lbs., provided that delivery may be made on certain days allotted to various sections of the city.

**COMPLAINTS.** It is our policy to adjust errors promptly and liberally. If you have any reasonable complaint we are anxious to know about it. Most dissatisfaction is on account of misunderstanding.

**NON-WARRANTY.** Most failures are due to causes beyond our control, rendering it impossible for us to guarantee success, and although we are careful to supply only such goods as will, under proper conditions, produce satisfactory results, we give no warranty as to description, quality or productiveness of any seeds, plants or bulbs sent out, and will not be in any way responsible for the crop, and every order for articles named in this catalog will be executed on these conditions only.



## VEGETABLE SEEDS

Seeds That May Be Depended Upon



**T**HERE IS A DIFFERENCE. In nothing does breeding and ancestry count more than in seeds. We are catering to the class of people who are particular what they buy, and want the best there is to be had. Our specialties are mostly of the famous Kelway Seeds, imported by us direct from England. Most gardeners know of Kelways, the leading and most reliable seed growers of England. The fact that they have grown the seed is sufficient proof of its excellence.

The seeds of such vegetables as are improved by being acclimated in the Northwest are either grown by us or procured from responsible growers. We have been very careful to procure only such seed as we can highly recommend. We are now building the foundation of a business, our reputation and future welfare are at stake and we cannot afford to handle anything but the best.

## ASPARAGUS

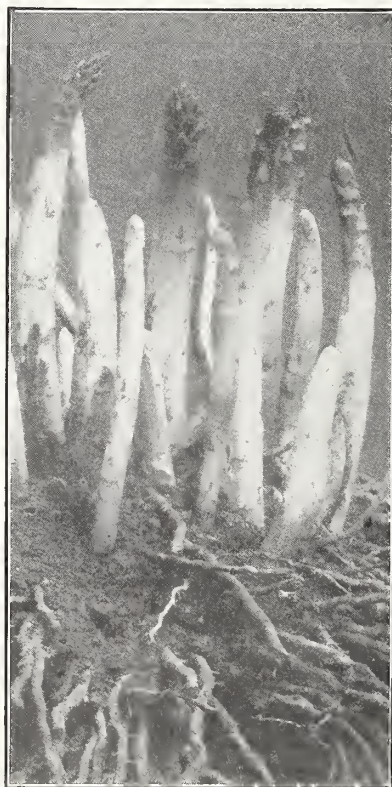
**Cultural directions.** Sow the seed very early in spring, an inch apart in drills two to three feet apart, covering with about one inch of soil. Thin to about three inches apart. Cultivate thoroughly during the summer. The following spring, transplant to the permanent bed. The soil should be very rich. Set the plants one foot apart in the bottom of trenches four feet apart, spreading the roots over little mounds of earth. Cover about three inches over the top of crowns, and gradually fill the trenches as the plants grow. They will not be ready to cut until about the fourth year. One to two years may be saved by purchasing the plants, listed elsewhere in this catalog.

## Conover's Colossal

An excellent variety; light green in color; a quick grower; firm, large, and of good flavor. This is the famous "Bouldin Island" asparagus, noted for its canning qualities. ....Packet, 10c; Oz., 20c; postpaid

## Palmetto

Very early and prolific, producing an abundance of very large, deep green shoots of the best quality .....Pkt., 10c; Oz., 20c; postpaid



Conover's Colossal Asparagus

## ARTICHOKE

**Cultural directions.** The Artichoke plant resembles a giant thistle, and the edible portion is the immature flower bud. It is a perennial, and will last for several years. Buds are not produced until the second year.

The seed should be sown in a hotbed, and the plants transplanted to the garden after all danger of frost is past. The soil should be very rich and well drained. Rows should be four feet apart and the plants two feet apart in rows.

## Large French Green Globe

The most popular variety. Buds are large, globular, deep green. Globe Artichokes are not in any way similar to Jerusalem Artichokes, the edible portion of which is the tubers .....Packet, 10c, postpaid

Jerusalem Artichokes are listed elsewhere in this catalog.

**MAG-O-TITE** is a sure cure for Root Maggots. You can now grow Radishes, Turnips, Cabbages and Onions.



## BEANS

### DWARF, WAX OR YELLOW PODDED VARIETIES

**Cultural directions.** A good sandy loam soil is best for beans. Do not plant until all danger of frost and chilly weather is past. Drop the seed about two inches apart in drills two feet apart, and cover with two inches of earth. One pound is sufficient for one hundred feet of drill.

#### DAVIS WHITE KIDNEY WAX BEAN

The finest yellow podded bush bean. It is very early, the plant is hardy and produces an abundant crop of long, straight, waxy white pods, six to seven inches in length, very attractive and of splendid quality. The dried beans are pure white, and are excellent for baking. Packet, 10c; Lb., 35c; postage additional

#### Golden Wax Bean

An old standard variety, and one of the earliest and best. The pods are of medium length, slightly curved, broad, flat, and golden yellow color. Packet, 10c; Lb., 35c

#### Wardwell's Kidney Wax Bean

A very popular wax bean, bearing long, waxy yellow flat pods; stringless and brittle. A little later than Golden Wax. Packet, 10c; Lb., 35c; postage additional

#### Pencil Pod Black Wax

A very handsome black wax yellow podded sort. Medium early, fairly hardy and productive. The pods are long, straight, round, fleshy, tender, stringless, and are produced through a long season. Packet, 10c; Lb., 35c

### DWARF, GREEN PODDED VARIETIES

#### Davis White Kidney Bean

**Cultural directions.** Same as for the Yellow Podded Varieties.

#### BURPEE'S STRINGLESS GREEN POD BEAN

Extra early and absolutely stringless. Two weeks earlier than other green pod varieties. The pods are long, thick, meaty, and of fine quality. Packet, 10c; Lb., 35c

#### Early Long Yellow Six Weeks

A very early green podded bean of good quality; a favorite for market. Packet, 10c; Lb., 35c

#### Black Valentine

A very hardy and productive green podded bean, popular with market gardeners. The vines are strong and vigorous, and may be depended upon to produce a good crop. Packet, 10c; Lb., 35c

#### Canadian Wonder

The largest and most prolific of the green podded sorts. Entirely stringless, early, and a great favorite. Bears for a long season. Packet, 10c; Lb., 35c

#### Dwarf Horticultural

One of the best dwarf sorts for green shell beans for home and market, and may be used early as a green podded snap bean. Seed is large, oval, plump, buff splashed with red. Packet, 10c; Lb., 35c

#### Refugee, or 1000 to 1

A standard and very productive variety, highly esteemed for late planting for snaps and for shipping, canning and picking. Plants very large and hardy. Packet, 10c; Lb., 35c

#### Early Refugee

Very similar to Late Refugee, but much earlier. Packet, 10c; Lb., 35c

#### Red Valentine

A superior variety for snaps. Very dependable, even under adverse conditions. Packet, 10c; Lb., 35c

### POLE BEANS

**Cultural directions.** Six to ten seeds should be planted two inches deep around the base of poles set firmly in the ground three to four feet apart. Thin to three or four plants to the hill after danger of insects is past

#### KENTUCKY WONDER, OR OLD HOMESTEAD

The finest and most popular of the pole beans. It is early and very prolific, with long attractive green pods of the most excellent quality. The vines are vigorous, climbing well, very productive, and bear pods in large clusters. Packet, 10c; Lb., 35c

#### Golden Pod Kentucky Wax

Very similar to the green podded Kentucky Wonder, but the pods are a little broader and are of a golden yellow color. Very fleshy, stringless and of excellent quality. Packet, 10c; Lb., 35c

#### Asparagus, or Yard Long Bean

Some prefer this to Kentucky Wonder. It is a prolific producer. The pods are long, slender, crisp, tender and have a wonderful flavor. Packet, 10c; Lb., 35c

#### Lazy Wife

Very extensively grown, and one of the best of the later green podded pole beans. Pods are six inches long, broad, thick, fleshy and stringless. The dry beans are white. Packet, 10c; Lb., 35c

#### London Horticultural, or Speckled Cranberry

One of the best of the Horticultural varieties as a late green shell bean. Many prefer this to the limas. The beans are large, ovate, flesh colored splashed with red. Packet, 10c; Lb., 35c

#### White Creaseback

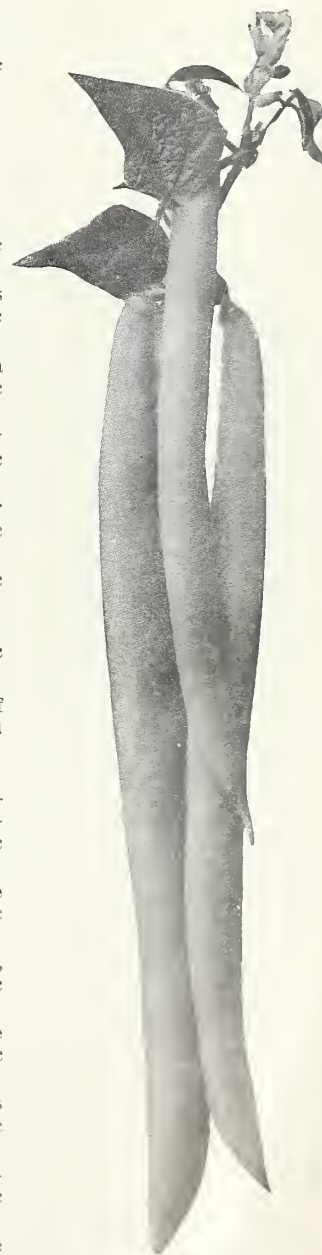
Valuable for its extreme earliness. Vines are of medium size, vigorous and wonderfully productive. Pods five inches long, light green, and of good quality. Packet, 10c; Lb., 35c

#### Scarlet Runner

Very ornamental, bearing a profusion of bright scarlet flowers. The pods, when young, are of fine quality and are in great demand, especially with the English people. Packet, 10c; Lb., 35c

#### White Dutch Runner

Similar to Scarlet Runner, except that the flowers are white. Packet, 10c; Lb., 35c



Stringless Green Pod



## LIMA BEANS

**Cultural directions.** Pole Lima and Dwarf Lima Beans are planted and cultivated the same as other Pole and Dwarf Beans, except that they are more tender and must not be planted until later, and must be favored in every way possible, especially the Pole Limas. The Dwarfs are more suitable for the Northwest.

### BURPEE'S DWARF LIMA

The earliest and best of the Dwarf Lima Beans, and the most suitable of the Limas for this locality.....Pkt., 15c; Lb., 40c

### King of the Garden Lima

A standard and favorite Pole Lima Bean, bearing large pods filled with very large beans, but all conditions must be favorable for success in this locality.....Pkt., 15c; Lb., 40c

### Oregon Pole Lima

Best of the Pole Lima Beans for the country west of the Cascade Mountains ..... Pkt., 15c; Lb., 40c

## BEETS

**Cultural directions.** For early beets sow the seed very early in spring, and for succession, main crop, and winter beets at intervals until June. Sow the seed two inches apart in drills twelve to eighteen inches apart, covering about one inch deep. The seed will germinate more quickly if soaked in water before planting.

### KELWAY'S CRIMSON GLOBE BEET

This is unquestionably the finest early beet, and those who have grown it will have no other. It is of medium size, about three inches in diameter, very nearly globular, with a smooth, even surface. The flesh is deep crimson ringed and zoned in varying shades.

Our seed is imported direct from Kelway & Sons, Loganport, England.

Pkt., 15c; Oz., 25c; Lb., \$2.00; postpaid.



Kelway's Crimson Globe Beet

### CROSBY'S EGYPTIAN

A great improvement over the old Egyptian Beet, larger and of better quality. Extra early, flattened, very smooth. An excellent variety.....Pkt., 10c; Oz., 20c; Lb., \$1.50; postpaid

### Early Blood Turnip Beet

Roots dark red and nearly round, slightly flattened. Flesh deep red zoned with lighter shade; sweet, crisp and tender. An excellent sort for summer and fall use ..... Pkt., 10c; Oz., 20c; Lb., \$1.50; postpaid

### Early Eclipse

One of the earliest. It does not grow to large size, but is desirable for its earliness and sweet, tender quality ..... Pkt., 10c; Oz., 20c; Lb., \$1.50; postpaid

### Extra Early Egyptian

Considered the best forcing variety. Tops are small. Roots very dark red, small, flattened on bottom. Tender and sweet. .... Pkt., 10c; Oz., 20c; Lb., \$1.50; postpaid

## FIELD BEANS

**Cultural directions.** Culture is the same as for other Dwarf Beans, except that for field culture the rows should be far enough apart to allow for cultivation with a horse. Sixty pounds of seed to the acre.

### LADY WASHINGTON

Similar to the Small White Navy Bean, but larger, earlier, and more productive. The bush is about fourteen inches high, yields immense crops, and matures in September ..... Packet, 10c; Pound, 25c; Postage additional

### Small White Navy Bean

The well known white bean so extensively grown commercially ..... Packet, 10c; Pound, 25c; Postage additional

### Broad Windsor Bean

A broad, flat bean; similar to the Lima in shape, but the color is brown. They are considered a great delicacy in England, and are boiled when young and tender.....Pkt., 10c; Lb., 25c



**VEGETABLE  
FERTILIZER  
For Root Crops.**

### Detroit Dark Red

A choice variety of early Turnip Beet. Somewhat globe shape; skin blood red; flesh rich red zoned with darker shade. Sweet, and excellent for canning.....Pkt., 10c; Oz., 20c; Lb., \$1.50

### HALF LONG BLOOD BEET

The best variety for winter and spring use and to slice for pickles. It is half long and the flesh is very rich red, sweet and tender ..... Pkt., 10c; Oz., 20c; Lb., \$1.50; postpaid

### Long Smooth Blood Red Beet

A standard late variety, keeping well through the winter. Flesh dark red, tender and sweet. Excellent for pickles. .... Pkt., 10c; Oz., 20c; Lb., \$1.50; postpaid

Swiss Chard, or Sea Kale Beet, the finest of all vegetables for greens, is listed on page 18. Don't fail to order this seed.

Mangels, or Stock Beets, will be found in the Farm Seeds section. They are valuable Poultry and Stock Food. We have some of Kelway's specials.



## BROCCOLI

**Cultural directions.** Broccoli resembles Cauliflower, but it is later, being marketed in winter and early spring, is hardier, not so large, and is somewhat coarser. It is deliciously sweet and tender, and our climate is especially adapted to its growth. Culture is the same as for Cauliflower.

### KELWAY'S SNOWDRIFT

A new and exceedingly fine variety. The heads are large and white, and the quality is unexcelled. Perfectly hardy, and will thrive in our climate. Our seed was grown by Kelways.....Packet, 15c; Ounce, \$1.50, postpaid

### Snowwhite

A valuable commercial variety, firm and of good shape .....Pkt., 10c; Oz., 75c, postpaid

### St. Valentine

An excellent variety. Heads large and solid. Ready in February. Remains in prime condition for a long time....Pkt., 10c; Oz., \$1.25, postpaid

**MAG-O-TITE** is a guaranteed remedy for Root Maggots. It is easy to apply, and the results are positive. Try it. If you are not satisfied we will refund your money.



Kelway's Snowdrift Broccoli

## BRUSSELS SPROUTS

**Cultural directions.** Belongs to the Cabbage and Cauliflower family, and the culture is similar. The edible portion is the small heads, less than two inches in diameter, which form on the stalk at each leaf joint. They are very hardy, and in this climate may be left in the garden all winter, the sprouts being removed as wanted for use. The side leaves should be broken off in the fall to give the sprouts room to grow.

### KELWAY'S PROLIFIC EXHIBITION

A very superior variety which can always be relied upon. Very fine, even shaped sprouts of good size and flavor. Not a coarse sprout, and not too small. Very prolific. Our seed is imported direct from Kelways.....Packet, 15c; Ounce, 75c; postpaid

### Odessa Market

An improved Danish variety. An abundant producer. Nice shape. Stands any kind of weather, and is an excellent variety in every respect..Packet, 10c; Ounce, 35c; postpaid

## CHINESE CABBAGE

### Celery Cabbage. Pe-Tsai

Introduced by the Pacific Coast Chinese. It is excellent either for salad or cooking, and is becoming quite popular. The heads blanch readily, and the leaves are so tender as to make it a very fine salad. Thrives in any good garden soil. It is not hardy against frost, but will keep well if stored in a cool cellar..Pkt., 10c; Oz., 50c, postpaid

## CHEVRIL

**Cultural directions.** Sow seed early in spring in seed bed. It germinates very slowly and it is sometimes four or five weeks before the plants appear. When the plants are large enough, transplant about one foot apart.

### Curled Chervil

Very finely curled, resembling Parsley. The young leaves are used in soups and for flavoring and garnishing meats and vegetables.....Pkt., 10c; Oz., 25c; postpaid

## CHICORY

**Cultural directions.** Sow the seed early in spring in light garden soil in drill two feet apart. When the plants are large enough, thin to six inches apart.

### Large Rooted, or Coffee

The roots are used as a substitute or adulterant for coffee when dried and ground, and the leaves, blanched, are used as a salad .....Pkt., 10c; Oz., 40c; postpaid

## CHIVES

The plant resembles a tuft of grass, but the leaves have a mild onion flavor and are used in salads and for flavoring soups.....Pkt., 10c, postpaid

## COLLARDS

A loose leaved cabbage or kale-like plant grown mostly in the south and used for greens .....Packet, 10c; Oz., 20c; postpaid



Kelways Prolific Exhibition



**FERTILIZERS  
PRODUCE  
RESULTS**



## CABBAGE

**Cultural directions.** Seed of the early varieties should either be sown in hotbeds in February or in cold frames in September and the plants wintered over. Transplant about eighteen inches apart in rows two to three feet apart very early in spring, setting the plants down to the first leaf. Seed for second early and late should be sown in seed bed from early spring to June. Plants for late cabbage may be transplanted as late as July or the first of August.

### KELWAY'S STANLEY

This is one of Kelway's specials, which means that it is really worth while. It is by far the earliest cabbage grown, and in quality it is best of all the early varieties. It is of medium size, very firm at the heart; with very few outer leaves, and these free from coarseness. It is dark green in color with small white veins. Our seed is imported direct from Kelways.....

.....Pkt., 15c; Oz., \$1.00; postpaid

### KELWAY'S PERFECT MODEL

A highly recommended, pointed, medium sized, early variety, uniform in shape and of splendid quality. Excellent for market, maturing all at one time. The seed which we offer was grown by Kelways.....Pkt., 15c; Oz., \$1.00; postpaid

### COPENHAGEN MARKET

Kelway's strain of this splendid variety. It is the earliest large, round headed cabbage, very large, very early, and very solid. The plants are short stemmed, compact, with few outer leaves, and are vigorous. Excellent for either home or market. Kelway's seed .....Pkt., 15c; Oz., \$1.00; postpaid



Copenhagen Market

### Early Jersey Wakefield

This has long been the standard early cabbage grown by all market gardeners. One of the very earliest, and a sure header. The heads are of medium size, uniformly pointed, very solid, and of excellent quality.....

.....Pkt., 10c; Oz., 75c; ¼-Lb., \$2.00; postpaid

### Early Winnigstadt

Not quite so early as Early Jersey Wakefield, but similar in shape and size. An excellent early variety.....

.....Pkt., 10c; Oz., 50c; ¼-Lb., \$1.50; postpaid

### Early Dwarf Flat Dutch

A good second early variety. Short stemmed, upright, compact, with few outer leaves. Heads rather large, nearly round, flattened. Firm and very solid. Good for home or market .....Pkt., 10c; Oz., 50c; ¼-Lb., \$1.50; postpaid

### Succession

A sure heading intermediate or second early variety. Short stemmed. Heads large, deep, very firm and of excellent quality.....Pkt., 10c; Oz., 50c; ¼-Lb., \$1.75; postpaid



Kelway's Perfect Model

### DANISH BALLHEAD

Another justly popular variety, the seed of which we imported from Kelways. It is a late variety, and the hardest of all cabbages, the best for shipping, and in great demand by commercial growers. The stems are long, the heads compact, crisp, and of fine quality.....

.....Packet, 15c; Oz., 85c; ¼-Lb., \$2.50; postpaid

### LATE FLAT DUTCH

Another of Kelway's strains, the best of this fine old variety. The plants are short stemmed with spreading outer leaves. The heads are very large, flat, solid, and of fine quality. Late, and a good keeper and shipper. Kelway's seed.....

.....Pkt., 10c; Oz., 60c; ¼-Lb., \$2.00; postpaid

### Large Late Drumhead

A popular late cabbage for commercial growing and shipping. Heads large and solid; flattened.....Pkt., 10c; Oz., 50c; ¼-Lb., \$1.50; postpaid

### Surehead

A reliable late cabbage. Heads are large, flattened, very solid, and of good quality.....

.....Pkt., 10c; Oz., 50c; ¼-Lb., \$1.75; postpaid

### Little Wonder

A very early variety, conical in form; hardy, solid and of good quality and flavor.....Pkt., 15c; Oz., 75c; ¼-Lb., \$2.50

### Glory of Enkhuizen

A second early variety, very sure heading and of excellent quality. The heads are very nearly round, very solid, and of good size .....Pkt., 10c; Oz., 75c; ¼-Lb., \$2.25; postpaid

### Red Rock

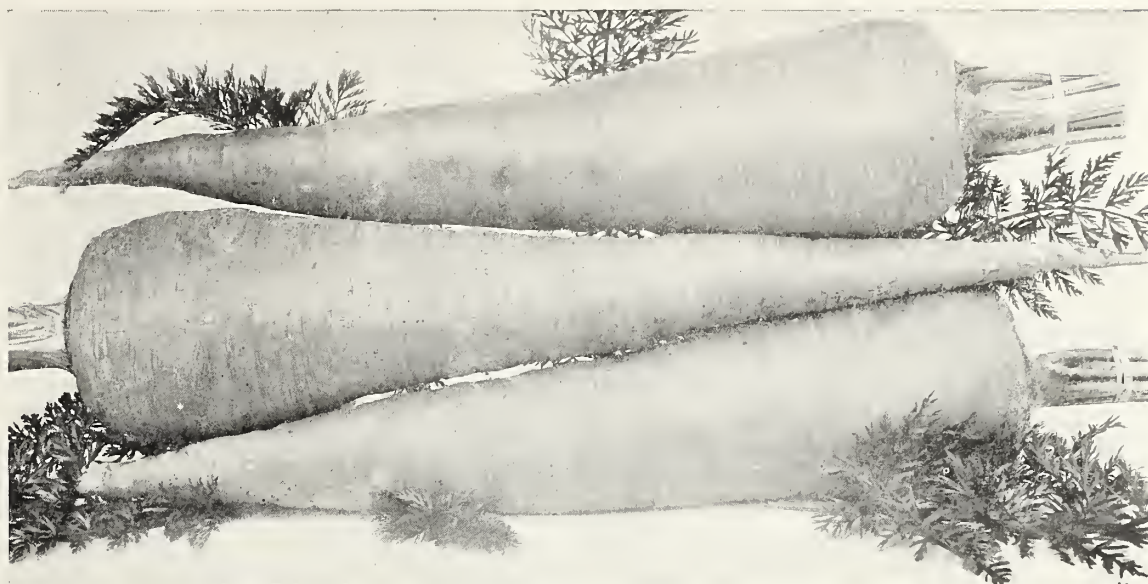
The largest and surest heading red cabbage. Late, large, round, very solid, and of very attractive deep red color.....

.....Pkt., 10c; Oz., 50c; ¼-Lb., \$1.75; postpaid

### American Drumhead Savoy

Best of the main crop or late Savoy cabbages. The plants are vigorous, with rather short stem, and are very sure heading. The leaves are fleshy and are densely and uniformly crumpled. The heads are large, nearly round, fairly solid, sweet and tender .....Pkt., 10c; Oz., 50c; ¼-Lb., \$1.75; postpaid





Kelway's Early Market

## CARROTS

**Cultural direction.** Like other root crops, carrots do best in a rich sandy loam, well tilled. For early crop the seed should be sown very early in spring; for later crops it may be sown any time before the middle of June. Sow in rows about sixteen inches apart and thin the plants to three inches apart. The seed is slow to germinate.

### KELWAY'S EARLY MARKET

A new variety for this country, and we believe that it will become as popular as it is in England. It is one of Kelway's specials, which is sufficient guarantee of its worth. It is an early variety, quick growing, and a heavy producer of sound roots of the finest quality. Half-long in shape, and heavy shouldered. Our seed was imported direct from Kelways.....

Packet, 15c; Ounce, 35c; Lb., \$2.50; postpaid

### Chantenay

An excellent medium early half long variety; one of the best in quality, and very productive. The roots are about six inches long, stump rooted, slightly tapered, smooth, crisp and tender. Bright orange in color .....

Pkt., 10c; Oz., 20c; Lb., \$1.25; postpaid

### Improved Long Orange

A long intermediate or late variety, often twelve inches in length and three inches in diameter at the crown, tapering to a point. Excellent for table use when young; very productive, and in demand for a stock carrot .....

Pkt., 10c; Oz., 15c; Lb., \$1.00; postpaid

### Early Scarlet Horn, or Short Horn

A very early variety used for forcing or early outdoor culture. The roots are reddish orange, and when forced quickly in very rich soil are very nearly round, but longer when grown outdoors. Used before fully grown, while young and tender .....

Pkt., 10c; Oz., 20c; Lb., \$1.50; postpaid

### Mastodon Stock Carrot

An excellent stock carrot, popular on account of its immense size, productiveness, and being short and easy to harvest. White; not suitable for table use.....

Pkt., 10c; Oz., 15c; Lb., \$1.00; postpaid

### Danvers Half Long

The most popular and generally known variety for both home and market. It is also a favorite for stock feeding, for although it does not yield so heavily as the larger varieties, it is richer and of much better quality. Stump rooted, six to eight inches long, deep orange in color, tender, and of good quality .....

Pkt., 10c; Oz., 20c; Lb., \$1.25; postpaid

### Oxheart, or Guerande

A very thick, blunt carrot growing five to six inches long; a heavy yielder and used for both table and stock. The flesh is bright orange, fine grained and sweet.....

Pkt., 10c; Oz., 20c; Lb., \$1.50; postpaid

### Large White Belgian

A splendid stock carrot; white, very large and productive. Grows mostly above ground .....

Pkt., 10c; Oz., 15c; Lb., \$1.00; postpaid

### Yellow Giant Stock Carrot

A new Australian variety, wonderfully productive and easy of culture. Does best on heavy soils. The shoulders stand well out of the ground, making them easy to harvest. Bright yellow in color, and in great favor with butter makers.

Pkt., 10c; Oz., 20c; Lb., \$1.50; postpaid

Randall-McLoughlin Company,  
Seattle.  
Gentlemen:

Seattle, Washington, August 15, 1919.

In reply to your inquiry as to the efficiency of "Magotite" for combatting cabbage maggot, I should like to say that my present report must be considered as a tentative one, since the season is not yet fully over and my observation has that the maggot fly has not been so prevalent this season as is usually the case.

Making these reservations, however, in the interests of accuracy of statement, I feel free to state that I have had very much better results from the use of this preparation as an aid in growing maggot-infested crops than I have had with any one material or device which I have used, with the exception of a completely screened seed bed.

The first "Magotite" which I secured from you in the early part of May was used, at once, on a small planting of Wakefield cabbages which were very badly infested with maggots and eggs. No attempt was made to remove either the larva or eggs and the "Magotite" was merely applied close to the roots after the earth had been drawn away. Only one plant out of the lot succumbed to the pest and it was practically dead at the time of application. Most of the crop has already been harvested as excellent cabbage and the rest is hardening up at this time.

In addition to this initial test I have successfully raised two lots of onions, three lots of radishes, two crops of turnips and have growing, at the present time, cabbage, kale, broccoll, cauliflower and Brussels sprouts. Some

of these crops I have not been able to grow successfully for years on account of the destruction wrought by the pest in question. I feel, therefore, confident that you have hit upon a really good protective application and, at the same time, a real remedy when the insect is present. This after a number of trials in which the maggots have been allowed to infest the crop before application and a number of other trials in which "Magotite" was kept on continuously from the sowing of the seed.

As you are aware, I have taken considerable pains in trying out "Magotite" as I have with a number of other materials which have been suggested. I have done this because this one pest is, by all odds, the worst which the Western Washington gardener has to contend with. It has been, in fact, so serious that for several years I have not recommended the growing of certain infested crops to the amateur gardener, at all. I have, however, become so confident of the success of your remedy that I have recommended it to all of my personal friends who are gardeners and I now take pleasure in permitting you to use my name in connection with the testing out of your product.

It is, of course, too early to say whether another season results would be so satisfactory, but there is every reason to believe that at least great relief can be had by the use of the so-called "Magotite" which you have placed upon the market.

Should your remedy continue to be as beneficial as it appears now to be, you will, in my estimation, have achieved a permanent niche in the history of the development of horticulture in Western Washington and other sections of the country which have been laboring under the handicap of the cabbage maggot pest.

Yours very sincerely,

RONALD E. CHAPMAN,

Director of Agriculture and Gardenlug.



## CAULIFLOWER

**Cultural directions.** The culture is practically the same as for cabbage, but they are a little more difficult to grow. When the heads begin to form they may be blanched by tying the leaves over them. They should be used while young and the curd is compact and firm.

### KELWAY'S QUICKSILVER

This is by far the earliest Cauliflower grown. It is one of Kelway's specials and is something new in this country. The heads are of medium size, compact, pure white, and are of the finest quality. Our seed is imported direct from England .....Packet, 35c; Ounce, \$5.50; postpaid

### VEITCH'S AUTUMN GIANT

Our seed of this splendid variety was grown by Kelways, and is of the finest strain. It is a late sort with a long stem and an abundance of dark green leaves. The heads are very large, white, firm and compact, and remain a long time fit for use.....Packet, 15c; Ounce, \$2.50; postpaid

### Early Snowball

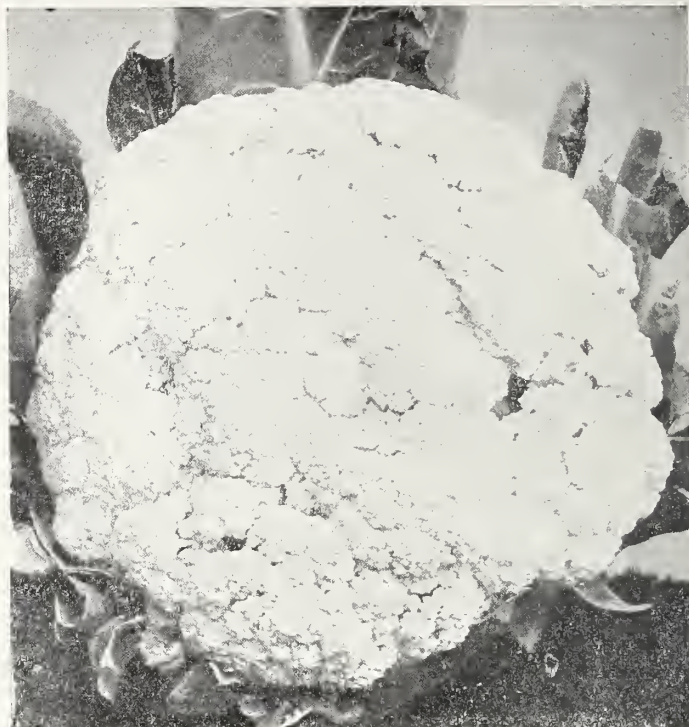
A fine grade of this standard early variety. Medium size, firm, round heads .....Packet, 10c; Ounce, \$3.50; postpaid

### Danish Snowball

A Holland grown strain of Snowball Cauliflower; early; dwarf. The heads are compact, white, and of fine quality .....Packet, 10c; Ounce, \$3.50; postpaid

### Late Algiers

American grown seed of this standard late variety. Very large heads of good quality.....Pkt., 10c; Oz., \$2.00; postpaid



Kelway's Quicksilver Cauliflower

### Danish Giant, or Dry Weather

A medium early variety especially adapted for growing in dry localities. A sure header, white, solid and of good quality. Our seed is imported from Holland .....Pkt., 25c; Oz., \$3.50; postpaid



Kelway's Golden Self-Blanching Celery

## CELERY

**Cultural directions.** Sow the seed in seed bed early in spring. Keep clear of weeds, and clip the tops once or twice to produce stocky plants. When ready to transplant, in June or July, set the plants six inches apart in rows three feet apart. In six or seven weeks they may be blanched by banking dirt against them, or by placing boards on edge on both sides of the rows.

### KELWAY'S GOLDEN SELF BLANCHING

Kelway's strain of this most popular early variety, grown by all market gardeners and for home use. The plants are of medium size, compact and stocky, with yellowish green foliage; crisp, tender, and free from stringiness.....Packet, 15c; Ounce, 50c; postpaid

### KELWAY'S WHITE PLUME

A very early variety. As the plants mature the inner stems and leaves turn white and require to be blanched but a short time before they are ready for use. It is very attractive, and is in great demand by market gardeners. Our seed is of Kelway's strain and is imported direct from England. Pkt., 15c; Oz., 50c; postpaid

### Giant Pascal

A very large, green leaved, late variety, popular for late fall and winter use. It blanches to a beautiful light yellow, and is solid, crisp and of good flavor.....Packet, 10c; Ounce, 35c; postpaid

## CELERICAC

A turnip rooted kind of celery, the roots of which are the edible portion. They keep well for winter use, and are used in soups and stews. They are also cooked and sliced as a salad .....Packet, 10c; Ounce, 25c; postpaid

## CORN SALAD

A small, quick growing salad plant for late fall, winter and spring use. The leaves are used as a substitute for lettuce and spinach. Pkt., 10c; Oz., \$2.50; postpaid



## SWEET CORN

**Cultural directions.** Our cool climate is not very favorable for growing corn, and to be successful it must be given every advantage possible. The soil should be light, warm and rich, preferably sloping to the south. Corn is very sensitive to frost, and it should not be planted until danger of frost is past. Do not plant too close; the hills should not be less than one foot apart in rows three and one-half feet apart. Nitrate of Soda, or other nitrogenous fertilizer applied early in the season will give the plants a good start.

### GOLDEN BANTAM

Golden Bantam is one of the newer varieties, and has become the most popular sweet corn grown. There is no other variety to compare with it in sweetness or flavor. It is early; the stalks are sturdy, and grow four to five feet high. The ears are eight rowed, six to seven inches long, and the kernels are large, exceptionally rich and sweet, and of a beautiful golden color.

Our seed is much superior to any that has been procurable in this market heretofore. It is pedigreed, having been grown by a specialist who has improved it by selecting for many years. Only the best ears are saved for seed, and they are grown from pedigreed stock  
.....Packet, 10c; Pound, 40c; postage additional

### Burpee's Early Howling-Mob

A splendid new early variety, not quite so early as Early Cory but the ears are much larger and the grains much whiter and sweeter. The ears measure seven to nine inches in length, with twelve to fourteen rows of good sized pearly white grains.  
.....Packet, 10c; Pound, 40c; postage additional

### Peep o' Day

The earliest variety grown. The ears grow about five inches long; the kernels are large, white and tender  
.....Pkt., 10c; Lb., 30c

### Early White Cory

A very early variety, each stalk usually bearing two ears six to seven inches long, with sweet, tender and delicious milky white kernels. Plants dwarf.  
.....Pkt., 10c; Lb., 35c

### Mammoth White Cory

An excellent early variety, a little later than Early White Cory, but the ears are larger.....Pkt., 10c; Lb., 35c

### Country Gentleman

The finest of the later varieties. It does well in this country when conditions are favorable. The ears are seven to nine inches long, the cobs very small and are densely covered with irregular rows of very long, slender white grains, unsurpassed in quality.....Pkt., 10c; Lb., 35c

### Early Minnesota

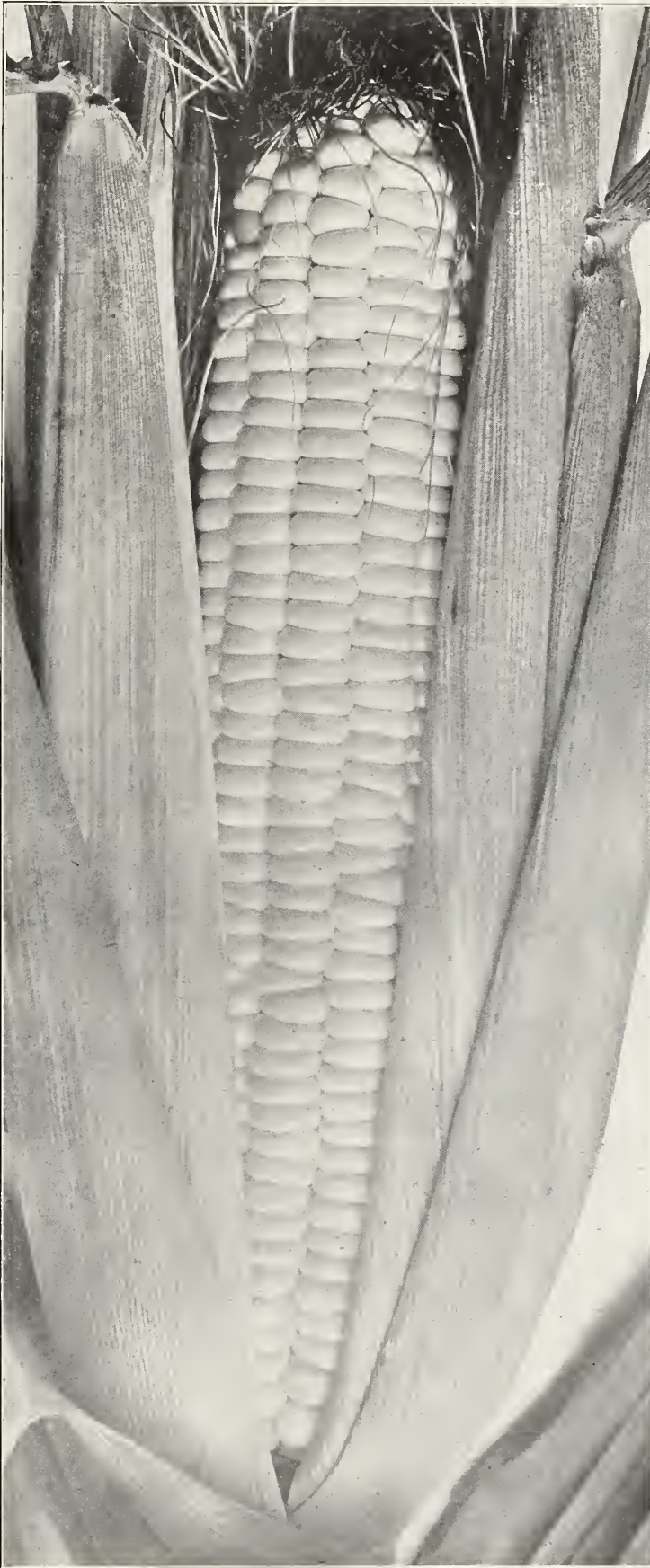
An old standard second early sweet corn of good size and excellent quality.....Pkt., 10c; Lb., 35c

### Stowell's Evergreen

A standard late variety of fine quality, very tender and sugary, and remaining a long time in edible condition. Ears seven to eight inches long, fourteen to twenty rowed, with very white grain.....Pkt., 10c; Lb., 30c

### Black Mexican

Although the ripe grain is bluish black, the corn when young cooks remarkably white, and is very tender and sweet. It is second early or late variety. The stalks grow tall. The ears are about eight inches long, and usually eight rowed  
.....Pkt., 10c; Lb., 35c



Golden Bantam

Field Corn is listed on page 42.



## CUCUMBERS

**Cultural directions.** Cucumbers require a warm, rich, sandy loam soil. For early cucumbers the plants may be started in boxes or pots in a hothed or in the house. They should not be set outdoors until there is a prospect of settled warm weather. Hills, about four feet apart each way, by mixing a generous amount of well rotted stable manure or commercial fertilizer with the soil. Plant eight to a dozen seeds, or the plants, in each hill. After all danger of insects is past thin the plants to three or four of the strongest in each hill. The fruit should be gathered when large enough, whether required for use or not.

### DAVIS PERFECT

A very early, handsome and well shaped cucumber, bringing fancy prices in the market, and often mistaken for hot-house grown. The long, even fruits are of fine form, with an intensely dark, rich green skin. It has very few seeds, and the solid white flesh is of the finest quality.....  
.....Packet, 10c; Ounce, 20c; postpaid

### Long Green

Vines vigorous and productive. The fruits are very long, often twelve to fifteen inches when mature, slender and of beautiful dark green color. Excellent for both slicing and pickles .....Packet, 10c; Ounce, 20c; postpaid

### White Spine

One of the best for table use. The vines are vigorous, fruiting early and abundantly. The fruits are dark green, about seven inches long when mature, and the flesh is crisp, tender and of excellent quality.....Pkt., 10c; Oz., 20c; postpaid

### Early Frame, or Short Green

An early, medium sized, bright green variety, popular for both pickles and slicing.....Pkt., 10c; Oz., 20c; postpaid

## CRESS

### Curled, or Pepper Grass

Finely cut and ornamental crisp, pungent leaves, used as a condiment and for garnishing.....  
.....Pkt., 10c; Oz., 20c; postpaid

### Water Cress

Must be grown along moist banks or in tubs in water covered soil. Highly esteemed for salads and garnishing.....  
.....Pkt., 10c; Oz., 75c; postpaid

## HERB SEEDS

No garden is complete without at least a part of the following herbs for flavoring, garnishing, etc.:

Anise	Lavender
Balm	Marjoram,
Basil	Sweet
Caraway	Peppermint
Catnip	Sage
Coriander	Summer Sav-
Dill	ory
Horehound	Thyme

Each, Pkt., 10c, postpaid

## EGG PLANT

Egg Plant requires about the same culture as Tomatoes. They are becoming more popular each year in this section, and should be more extensively grown.

### New York Improved

Large; purple; one of the finest varieties. Does well in this locality .....Pkt., 10c

## KOHL RABI

Excellent for soups, also as a boiling vegetable. The culture is the same as for cabbage.

### Early White Vienna

The most popular sort. Very early; medium size; nearly white .....Pkt., 10c; Oz., 30c

### Early Purple Vienna

A little larger than the white; tinged with purple....  
.....Pkt., 10c; Oz., 30c

### Boston Pickling

A very productive variety extensively grown for pickles. The fruits are of medium, bright green, smooth and symmetrical .....Packet, 10c; Ounce, 20c; postpaid

### Cool and Crisp

An early and prolific strain of the White Spine class. It is long, tapering at each end, and the color is dark green. Fine for slicing .....Packet, 10c; Ounce, 20c; postpaid

### Lemon Cucumber

The vines produce prolifically dainty little cucumbers resembling lemons in both form and color and having a delicious and distinctive flavor .....Packet, 10c; Ounce, 20c; postpaid

### Japanese Climbing Cucumbers

Fruit very long and slender; the skin smooth and dark green; flesh pure white, crisp and of mild flavor. The vines should be trained over a trellis.....Pkt., 10c; Oz., 20c; postpaid

### Gherkin

A very small, oval, prickly fruited sort quite distinct from all others, and grown exclusively for pickles.....  
.....Pkt., 10c; Oz., 20c; postpaid

## ENDIVE

A fine salad for winter use, generally sown late in fall, in drills eighteen inches apart, and thinned to one foot apart.

### Broad Leaved Batavian (Escarolle)

Has broad, twisted leaves. The inner leaves form a head which blanches beautifully and is crisp and tender.....  
.....Pkt., 10c; Oz., 20c

### White Curled

Very light yellowish green leaves; crisp and tender....  
.....Pkt., 10c; Oz., 20c

### Green Curled

The hardiest variety. Blanches creamy white. Long standing .....  
Pkt., 10c; Oz., 20c; postpaid

## LEEK

Belongs to the Onion family and is a good fall and winter substitute for green onions. The leaves are flat and the stem very large. They do not produce bulbs like onions. The stems are blanched in fall by banking earth up against them.

Sow the seed in spring in drills twelve to fifteen inches apart. Thin to six inches apart in rows.

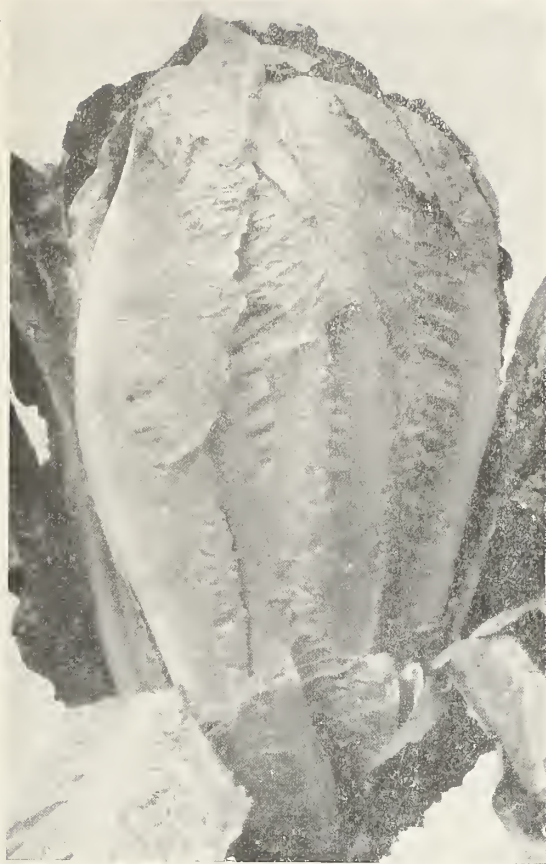
### Large American Flag

The most popular variety; strong growing, broad leaved, hardy and productive. The stems are very large, thick, and of sweet flavor when properly blanched. A favorite with market gardeners, and extensively grown for home use .....  
Pkt., 10c; Oz., 30c; postpaid



Large American Flag Leek





Kelway's Silver Cos Lettuce

## KELWAY'S SILVER COS LETTUCE

The Cos or Romaine lettuce deserves to be more generally grown for home use, for it is unequalled in crispness, tenderness, and has a flavor distinct from any other. The long, narrow, spoon-shaped leaves are folded into loose, sugar-loaf shaped heads, which are blanched by tying the outer leaves about them .....Packet, 15c; Ounce, 40c; postpaid

## NEW YORK, OR WONDERFUL

This has recently become the most popular head lettuce, and deservedly so. It is extremely large, and is a sure header under all ordinary conditions. It thrives in all climates and seasons and is unequalled for growing during the summer months. The heads are fairly solid, blanch creamy white, and are crisp, tender and delicious.....Packet, 10c; Oz., 30c; postpaid

### May King

An extremely early variety forming solid little heads, the inner leaves of which blanch rich golden yellow; very tender and buttery .....Pkt., 10c; Oz., 15c; postpaid

### Big Boston

Very popular with market gardeners, both for forcing and outdoor culture. Heads very large.....Pkt., 10c; Oz., 20c; postpaid

### Black Seeded Simpson, or Tennisball

Extremely early, small, solid heads, popular for forcing and early planting outdoors; inner leaves creamy white, crisp, tender and buttery .....Pkt., 10c; Oz., 15c; postpaid

### Deacon, or San Francisco Market

An excellent summer variety. Heads of large size, very firm, and remains in condition for use a long time. Inner leaves are rich yellow and crisp.....Pkt., 10c; Oz., 20c; postpaid

## KALE

**Cultural directions.** For late fall or early winter use, sow the seed in seed bed early in June and transplant like cabbage in July. If for spring use sow seed of the hardy varieties in August and transplant a month later.

### KELWAY'S SPONGE

A distinct and very superior variety of kale; dwarf, low-growing, very compact, with a head somewhat resembling a cabbage. The flavor is excellent, and it is a splendid winter vegetable for greens. Our seed is imported direct from Kelways.....Packet, 15c; Ounce, 50c; postpaid

### EMERALD ISLE

The handsomest and one of the best strains of green curled kale. Of medium height, beautifully fringed and curled, and of a rich green color. Sufficiently hardy to withstand any weather on the Pacific Coast.....

.....Packet, 10c; Oz., 30c; Lb., \$2.00; postpaid

### Dwarf Moss Curled

Of medium height with beautiful green leaves so closely curled as to resemble parsley .....Pkt., 10c; Oz., 30c; Lb., \$2.00; postpaid

### Dwarf Green Curled

Bright green leaves, finely curled; dwarf and very hardy.....Pkt., 10c; Oz., 30c; Lb., \$2.00; postpaid

### Tall Green Curled Scotch

Grows about three feet high with long plume-like light green leaves deeply cut and finely curled at the edges. Very hardy.....

.....Pkt., 10c; Oz., 30c; Lb., \$2.00; postpaid

Thousand Headed Kale is listed in Farm Seeds Section.

## LETTUCE

**Cultural directions.** Thrives in ordinary rich garden soil. Sow the seed very early in spring in rows twelve to sixteen inches apart. Thin the plants to four inches apart, and as they begin to crowd each other further thin by using alternate plants. Seed may be sown in fall and the plants wintered over in cold frames. To be crisp and tender it should be grown quickly.



New York, or Wonderful Lettuce

### Prizehead

An old favorite non-heading variety. The leaves are bright green tinged with red at the edges; curled, crisp, tender and sweet. Not a good shipper, but fine for the home garden .....Pkt., 10c; Oz. 15c; postpaid

### Crisp as Ice

A very large, crisp, non-heading lettuce, tender and of fine flavor. The leaves are light green slightly tinged with brown. Stands hot weather remarkably well .....Pkt., 10c; Oz., 20c; postpaid

Continued on next page.



(Lettuce continued.)

**Improved Hanson Head**

This has long been a favorite late summer head lettuce. The plant is compact and forms a large cabbage-like head which remains in condition longer than most heading sorts. The outer leaves are bright yellowish green, broad, crumpled and frilled. The head is tight, and the inner leaves are curled, white, crisp and sweet.....

Pkt., 10c; Oz., 20c; postpaid

**Grand Rapids**

A favorite green-house forcing variety, quick growing, hardy and not liable to rot. The plant forms a loose cluster of large, thin, bright green leaves, savoyed and finely crimped at the edges. Very attractive.....

Pkt., 10c; Oz., 15c; postpaid

**Iceberg**

A light green, brown tinged, curled, non-heading lettuce; large, crisp, tender, and fine for home or market.....

Pkt., 10c; Oz., 20c; postpaid



Improved Hanson Head Lettuce

**MUSKMELON**

**Cultural directions.** To grow Muskmelons successfully on the Pacific Coast all conditions must be as favorable as possible. The soil should be rich, light and warm, and a generous amount of well rotted stable manure or commercial fertilizer should be mixed with the soil in each hill. Plants may be started in boxes or pots in the house or hotbed, or seed may be planted the same as cucumbers when weather is settled and warm.

**ROCKY FORD, OR NETTED GEM**

This is by far the most popular cantaloupe grown, and is unequalled in quality and flavor. The fruit is of medium size oval, slightly ribbed and finely netted. The flesh is green, thick, very sweet, and of the finest flavor.....

Pkt., 10c; Oz., 15c; Lb., \$1.25; postpaid

**Large Yellow Canteloupe**

A large, early, and very productive yellow fleshed melon. The flesh is salmon-yellow, rich and sweet.....

Pkt., 10c; Oz., 15c; Lb., \$1.25; postpaid

**Extra Early Hackensack**

A popular large sized, green fleshed melon; nearly round, deeply ribbed, with very coarse netting over a green skin slightly tinged with yellow. The flesh is green, rather coarse, but juicy and sweet.....

**Burrell's Gem**

A fine orange-yellow fleshed muskmelon. Medium size, oval with prominent ribs and a tough, thin skin, making it a good shipper. The flesh is very thick, fine grained and of a pleasing spicy flavor.....

Pkt., 10c; Oz., 15c; Lb., \$1.25; postpaid

**WATERMELON**

**Cultural directions.** The Watermelon is another long season crop, and is not very successful west of the Cascade Mountains. The plants may be started in the house or hotbed, the same as Muskmelons, and the culture is the same except that they require more room. They are grown successfully east of the mountains.

**TOM WATSON**

A large, long melon, similar in shape, color and quality to Kleckley Sweets, but larger and with a tougher skin, making it a better shipper. The vines are vigorous and productive. The flesh is rich red, sweet and tender. The seeds are white marked with brown.....

Pkt., 10c; Oz., 15c; Lb., \$1.25; postpaid

**Sweetheart**

Fruit large, heavy, oval, mottled dark and light green; rind thin but firm; flesh bright red, solid, tender and sweet. A good shipper.....

Pkt., 10c; Oz., 20c; Lb., \$1.25; postpaid

**Kleckley Sweets, or Monte Cristo**

This splendid melon is unequalled for home use or near by markets, but the skin is so thin that it is not a good shipper. The fruits are of medium size, oblong, and dark green in color. The flesh is bright, rich red, exceedingly sweet, and so crisp and tender that it will not stand shipping. Seed white.....

Pkt., 10c; Oz., 15c; Lb., \$1.25; postpaid

**Halbert Honey**

Crisp, firm and heavy fleshed, well ripened to a very thin rind; very sweet.....

Pkt., 10c; Oz., 20c; Lb., \$1.25; postpaid

**MUSHROOM SPAWN**

**Cultural directions.** Mushrooms may be grown in a cellar, shed, or any place where a uniform temperature of fifty to seventy degrees can be maintained. Prepare a bed by mixing about three parts fresh horse manure with one part rich loam soil. Allow this to stand for a few days until it becomes heated, then fork it over and let it stand until it again becomes heated. Then make into a bed about four feet wide, any desired length, and twelve to eighteen inches deep, packed down firmly. In a few days the temperature will rise; do not spawn the bed until it has subsided to about ninety degrees. Cut a brick of spawn into about twelve pieces and insert the pieces in the bed about ten inches apart each way, one to two inches below the surface. Firm the bed down and cover with two inches of loam. Do not water the bed unless it becomes dry, then moisten with a fine spray. Mushrooms should be ready to use in six to eight weeks, and last about thirty days. After the first crop is removed, spread an inch of loam over the bed, and moisten with water.

**American Pure Culture Mushroom Spawn**

By a new process of selection and grafting, this spawn is scientifically propagated so that large, vigorous and finely flavored mushrooms are reproduced. The standard and best.....

1 brick (about 1 1/4 lb.), 35c; 3 bricks, \$1.00; postage additional



**MAG-O-TITE**  
IS A  
**GUARANTEED**  
REMEDY FOR  
**ROOT MAGGOT**



Kelway's  
Victoria Cross

## ONION

**Cultural directions.** Onions require a very rich soil in a perfect state of cultivation. Sow the seed thinly, one-half inch deep, in rows eighteen inches apart. Thin the plants to two inches apart, and later thin to three to four inches. Cultivate frequently and thoroughly. Weeds in the rows must be removed by hand. One ounce of seed to one hundred feet of drill; three pounds per acre.

### KELWAY'S VICTORIA CROSS

This is Kelway's new special, listed for the first time last season. It has never been grown in this country, and we believe that we are the first seedsmen to list this variety in this locality. We have only the growers' description, but Kelway recommended it to us as the best of his many fine varieties, and that is sufficient. It is described as "a new selection; the highest type of yellow onion; very large, and a long keeper".....  
Pkt., 35c; Ounce, \$1.00; postpaid

### AILSA CRAIG

An English introduction, one of the largest onions grown, often weighing two pounds. The skin is dark straw color; the flesh pure white, tender, and very mild .....Pkt., 15c; Oz., 50c; lb., \$5.00; postpaid

### Prizetaker

A popular variety; very large, globe shaped. It is a heavy yielder and good keeper, making it a good market variety. The skin is light yellow and the flesh white and mild .....Pkt., 10c; Oz., 35c; lb., \$3.25

### Yellow Globe Danvers

The most generally grown main crop onion for both home and market. It is of medium size; the skin is yellow and the flesh is creamy white, mild and of excellent flavor. The bulbs are globe shaped, with small neck, and ripen evenly. It is a good keeper and excellent shipper.....  
Pkt., 10c; Oz., 25c; lb., \$2.75; postpaid

### Oregon Yellow Danvers

Similar to Yellow Globe Danvers except that it is flattened. Very popular on the Pacific Coast on account of its size, hardness, productiveness and fine quality.....  
Pkt., 10c; Oz., 35c; lb., \$3.50; postpaid

### Large Red Weathersfield

The most popular red onion. Very large, flattened, and of a purplish red color. The flesh is white and of good flavor; firm, and a good keeper and shipper.....  
Pkt., 10c; Oz., 30c; lb., \$3.00; postpaid

### Southport White Globe

A very handsome, pure white, globular shaped onion of good size. The flesh is firm, fine grained and mild. It is much grown for green onions on account of the pure white color.....Pkt., 10c; Oz., 35c; lb., \$3.50; postpaid

### White Portugal

A standard medium early white onion. The bulb is flattened on the bottom; skin clear white; flesh firm and of mild flavor. It is a great favorite for both mature onions and green onions, also for white onion sets.....  
Pkt., 10c; oz., 35c; lb., \$3.50; postpaid

### Queen

The standard pickling onion. Very early, very small and pure white. The flesh is mild and of fine flavor. On account of being extremely early, it is also used for green onions.....  
Pkt., 10c; oz., 50c; lb., \$5.00; postpaid

### Australian Brown

An early and very hardy brown onion of medium size. Nearly round, with thick, rich brown skin, and a good keeper. Flesh white, crisp, solid, and of mild flavor.....  
Pkt., 10c; oz., 30c; lb., \$2.50; postpaid

### Bottom Sets

Fine, small, uniform sets of Yellow Danvers and White Portugal varieties .....  
1 lb., 25c; 10 lbs., \$2.00; postage additional

## ONION SETS

### Shallots

A variety of multiplier onion. Prolific yielder, and fine for pickling.....1 lb., 35c; 10 lbs., \$3.00; Postage additional



## MUSTARD

The seed is used as a condiment and the green leaves are used as a salad or boiled for greens. Sow the seed early in spring, one-half inch deep, in drills eighteen inches apart. For succession sow at intervals of three or four weeks until fall.

### Southern Giant Curled

Large, light green leaves, tinged with yellow, crimped and frilled at edges. Hardy and of good quality.....  
.....Pkt., 10c; Oz., 15c; postpaid

### White English

Comparatively small, dark green leaves, deeply cut. Mild and tender when young. Seed large and light yellow.....  
.....Pkt., 10c; Oz., 15c; postpaid

## PARSNIP

**Cultural directions.** Parsnips do well on any rich, deep, mellow garden soil. Fresh stable manure is apt to make the roots coarse and ill shaped. Sow the seed early in spring, one-half inch deep, in drills eighteen inches apart. Thin the plants to four to six inches apart. They are improved by frost, and in this locality are generally left in the ground until wanted for use. They are splendid stock food, and should be more generally used for that purpose. One ounce for two hundred feet of drill.

### Hollow Crown

The most popular variety for both table and stock feeding. The roots are long, with smooth, white skin, uniform in shape, tender, and of the best quality .....  
.....Pkt., 10c; Oz., 20c; Lb., \$1.25; postpaid

## PEAS

**Cultural directions.** For early peas, sow very early in spring; they are sometimes sown in the fall. The seed should be sown one to two inches apart in rows two to three feet apart, and covered two to three inches deep, deeper when sown in fall. For succession, sow at intervals of about two weeks until the middle of June. The tall varieties must be supported by stakes, brush, or a trellis of some kind. One pound for fifty feet of drill.

### KELWAY'S BEAUTY

Something new. One of Kelway's specials, and highly recommended to us by him. It is extremely early and very hardy, making it a good variety for fall planting. Grows about three feet high. Kelway describes it as follows:

"Of improved Gradus type, but much more prolific and so hardy that it can be sown much earlier and in more exposed localities than that variety. The dark green pods, borne in pairs, are larger, longer, and more even in size than Pilot, and contain fine deep green peas of excellent flavor. Distinct from either variety. It is undoubtedly the best early pea for market. Large, dimpled, round, marrowfat peas. Free from mildew."

Our seed is imported direct from Kelways .....  
.....Packet, 35c; ½-Lb., 60c; Lb., \$1.00; postage additional

### Alaska

A very early smooth, round, medium sized pea, maturing its crop all at one time, and for that reason a favorite with canners. Vines about two and one-half feet high.....  
.....Pkt., 10c; ½-lb., 20c; Lb., 30c; postage additional

### Blue Bantam

A new, early, dwarf pea bearing an abundance of long, deep green pods well filled with large, sweet, tender peas of good quality.....Pkt., 10c; ½-Lb., 25c; Lb., 40c; postage additional

### American Wonder

A very early, dwarf, wrinkled variety. The vines grow only about one foot high, and produce a good crop of well filled pods of medium size. The peas are large, sweet, tender and well flavored.....Pkt., 10c; ½-Lb., 25c; Lb., 40c; postage additional

## OKRA, OR GUMBO

The young seed pods are used in soups, stews, catsups, etc. To grow it successfully in this locality, conditions must be of the best. After the ground is warm and in good condition, and danger of chilly weather is past, plant the seed one inch deep in rows thirty inches apart. When about three inches high, thin the plants to twelve inches apart in the rows.

### White Velvet

The plants grow about three feet high, are early maturing, and very productive. The pods are white, long, smooth, and are tender until nearly full grown.....Pkt., 10c; oz., 15c; postpaid



Kelway's Beauty Pea

### Dwarf Telephone

A popular late, dwarf pea, growing about two feet high, producing a good crop of good sized wrinkled peas of good quality.....Pkt., 10c; ½ lb., 20c; lb., 35c; postage additional

### Little Gem

An old favorite dwarf wrinkled variety. Vines grow about eighteen inches high and are very productive. Peas medium size and of good quality. Medium early.  
Price.....Pkt., 10c; ½ lb., 25c; lb., 40c; postage additional

### Premium Gem

An improvement over Little Gem, earlier and larger. Bears a long time and stays tender longer than most peas.  
Price.....Pkt., 10c; ½ lb., 25c; lb., 40c; postage additional





**KELWAY'S  
LANGPORT PEA**

#### Improved Stratagem

One of the best of the large podded semi-dwarf main crop varieties. The vines are about two and one-half feet high. The pods are large and are uniformly filled with very large dark green peas of the finest quality.....

.....Pkt., 10c; ½-Lb., 25c; Lb., 40c; postage additional

#### Nott's Excelsior

A very prolific early pea. Vines grow about fourteen inches high; pods about three inches long, well filled with medium size peas, green, wrinkled, sweet, and of excellent flavor.....

.....Pkt., 10c; ½-Lb., 25c; Lb., 40c; postage additional

**Cultural direction.** West of the Cascade Mountains it is difficult to grow Peppers successfully, and they must be favored in every way possible. The culture is the same as for Tomatoes, except that they are more tender, require a longer season, and more hot weather.

#### Ruby King

Very large and attractive. The plants are about thirty inches high, vigorous, compact and productive. Fruits very large, deep green when young, bright red when ripe. Flesh thick and mild.....

.....Pkt., 10c; Oz., 75c; postpaid

## KELWAY'S LANGPORT

This is another of Kelway's new specials, and Kelway's recommend is sufficient for all who know of that great seed house. They describe it as follows:

"This is a genuine novelty, the result of a successful pedigree cross between well known varieties, and gives us a wrinkled marrowfat superior to, and longer in the pod than the splendid pea Alderman, whilst it is about one foot to one and one-half foot dwarfer than that variety, and in season at the end of the second earlies. It is first rate in robustness, habit and colour, and a superb cropper. A stout grower, with a deep green pod four and one-half inches long, like a longer Alderman, some inclined to be curved, with nine to eleven large, sweet peas per pod. Pods are produced in pairs. Splendid for exhibition, a good cropper, four and one-half feet high. Guaranteed perfectly distinct, and very highly recommended for garden, market, or exhibition."

Our seed was grown by Kelways and imported by us direct.....Packet, 35c; ½-Lb., 60c; Lb., \$1.00; postage additional.

#### Alderman

A splendid early main crop pea of the Telephone type. The vines are tall growing, five to six feet, vigorous and very productive. The pods are of large size and well filled. The peas are very large and unsurpassed in quality.....

.....Pkt., 10c; ½-Lb., 25c; Lb., 40c

#### Gradus

One of the very best early, wrinkled peas. The vines grow about three feet high, are hardy, vigorous and very productive. The peas are large, very sweet, and of the finest flavor. Stays tender a long time. The most generally grown of the early peas, and quite equal to Telephone in quality.....

.....Pkt., 10c; ½-Lb., 25c; Lb., 40c

#### Thomas Laxton

Very much like Gradus in every way except the shape of the pod. One of the best early peas.....

.....Pkt., 10c; ½-Lb., 25c; Lb., 40c

#### Tall Telephone

The standard late variety with market gardeners. The vines grow five to six feet high, and produce immense crops of very large pods filled with large, sweet, tender peas of fine quality.....

.....Pkt., 10c; ½-Lb., 25c; Lb., 40c

#### Lincoln

An excellent dwarf main crop variety growing about two feet high. The pods are of medium size, and are filled with good sized wrinkled peas, very sweet and of good quality.....

.....Pkt., 10c; ½-Lb., 25c; Lb., 40c; postage additional

#### Yorkshire Hero

Second early. Two and one-half feet high. Pods three inches long. Peas of good quality.....

.....Pkt., 10c; ½-Lb., 25c; Lb., 40c

#### Dwarf Sugar, Edible Pod

Dwarf plant. Edible pods.....

.....Pkt., 10c; ½-Lb., 25c; Lb., 40c

## PEPPER

#### Large Bell, or Bull Nose

Plants vigorous, about two feet high, compact and productive. Fruits large, with thick, mild flesh of excellent quality. Deep green when young, bright crimson when ripe.....

.....Pkt., 10c; Oz., 75c; postpaid

#### Long Red Cayenne

Medium early, with a slender, twisted, pointed pod about four inches long, deep green when young, bright red when ripe.....

.....Pkt., 10c; Oz., 75c; postpaid



## PARSLEY

**Cultural directions.** Sow the seed early in spring, not more than one-half inch deep, in rows twelve to sixteen inches apart. The seed germinates very slowly, often requiring three to four weeks. It is well to sow radish seed with the parsley to mark the rows for the purpose of cultivation.

### KELWAY'S CRESTED GEM

Kelway describes this variety as follows:

"One of our most popular specialties. It is the most lovely plant for garnishing that it is possible to conceive. The dwarf, compact habit of the plant and the fineness of the closely cut foliage are unsurpassable; it should be grown for table decoration. A kind that has been fixed by annual selection at Langport for two generations."

Our seed is imported direct from Kelways.....

.....Packet, 25c; Ounce, 50c; postpaid

### Champion Moss Curled

A very attractive and popular variety. The plant is vigorous, compact, handsome, and excellent for garnishing and flavoring. The leaves are very finely cut and so closely curled as to resemble bunches of moss.....Pkt., 10c; Oz., 20c; postpaid

### Turnip Rooted

The roots, resembling small parsnips, are the edible portion of this variety, and are esteemed for flavoring soups, stews, etc. ....Pkt., 10c; Oz., 20c; postpaid



### Plain Parsley

The leaves are flat, deeply cut, but not curled. It is used for flavoring soups, stews, and for drying, and is a favorite on account of its dark green color.....Pkt., 10c; Oz., 15c

## PUMPKIN

**Cultural directions.** The seed should not be sown until the ground is thoroughly warm and weather is settled late in spring. For garden culture, the small varieties may be planted in hills six to eight feet apart each way. The large varieties require more room. One ounce for twenty-five hills; three pounds per acre.

### Sugar, or Sweet Pie

The pumpkins are small, but very sweet, fine grained and of the best quality. Unequalled for making pies.....Pkt., 10c; Oz., 20c; Lb., \$1.50; postpaid

### Connecticut Field

The popular large, yellow variety. Very vigorous and productive.....Pkt., 10c; Oz., 20c; Lb., \$1.50; postpaid

### Mammoth Tours

A very large French variety, often weighing more than a hundred pounds.....Pkt., 10c; Oz., 20c; Lb., \$1.50; postpaid

### Cushaw

A favorite variety for pies. The flesh is very fine grained and sweet.....Pkt., 10c; Oz., 20c; Lb., \$1.50; postpaid



## RADISH

**Cultural Directions.** Radishes thrive best on a rich, light soil, and should be grown quickly to make them crisp and tender. Sow the seed very early in spring in drills twelve to sixteen inches apart, and thin the plants to about two inches apart. For succession, sow at intervals of two or three weeks. Seed for winter radishes should be sown in August or the first of September. Many have quit growing radishes on account of the ravages of root maggots. This pest can be eliminated by the use of Mag-o-tite.

### ICICLE

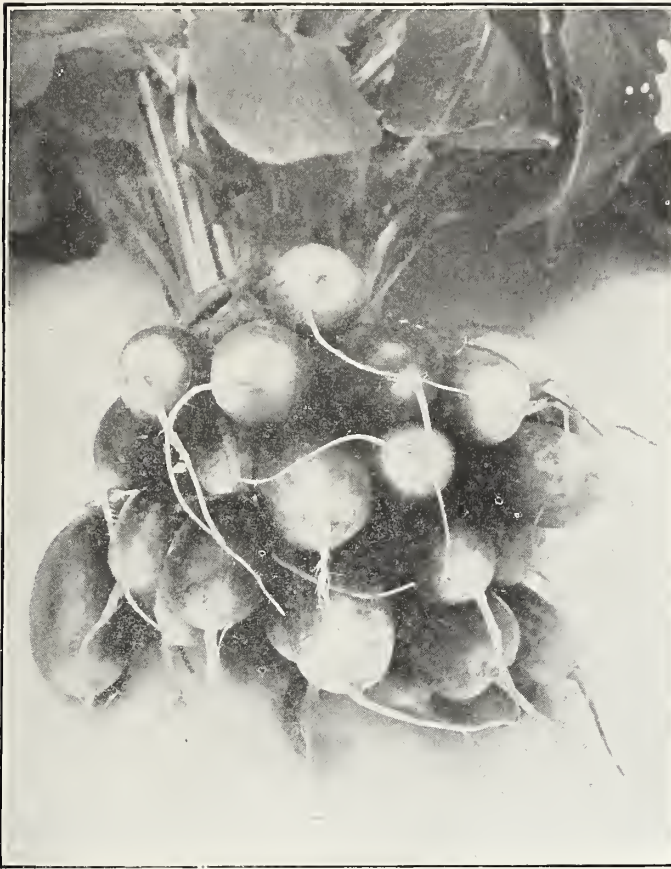
The finest long white radish. Medium early; of a beautiful transparent white color; very crisp and brittle, and remains tender for a long time.....Pkt., 10c; oz., 20c; postpaid

### CRIMSON GIANT

A splendid early round, red radish, very early and growing twice the size of other early varieties without becoming pithy or tough. Equally good for forcing or early or main crop outdoors.....Pkt., 10c; oz., 20c; postpaid

If you have quit growing radishes on account of the root maggots, try again this year, using Mag-o-tite. It is guaranteed.





**Kelway's Red Cap Radish**

**Long Scarlet Short Top**

A standard variety for both home and market. The tops are small. The roots are smooth, slender, grow about one-third out of the ground, and continue crisp and tender until matured.....Pkt., 10c; Oz., 20c; postpaid

**Sakurajima**

The mammoth radish of Japan, the largest in cultivation, often weighing twenty to thirty pounds. The flesh is very solid, firm and brittle. Can be eaten raw or cooked as a vegetable. Can be transplanted or left where the seed is sown. If sown in the fall it will reach maturity the following summer; if sown in spring it will mature for winter use.....Pkt., 15c; Oz., 25c; postpaid

**China Rose Winter Radish**

A winter radish growing four to five inches long, one and one-half inches in diameter, and largest at the bottom. The skin is bright rose color. The flesh is white, firm, crisp and tender.....Pkt., 10c; Oz., 20c; postpaid

**Round Black Spanish**

The roots are round or top shaped, three or four inches in diameter. The skin is black. The flesh is white, very solid, decidedly pungent, but well flavored. It keeps well through the winter.....Pkt., 10c; Oz., 20c; postpaid

**Long Black Spanish**

One of the latest and hardiest of winter radishes. The roots grow seven to nine inches long and two to three inches in diameter, and are almost black. The flesh is white, firm, pungent and of good flavor.....Pkt., 10c; Oz., 20c; postpaid

**KELWAY'S  
RED CAP RADISH**

One of Kelways new specials, and for that reason we do not hesitate to recommend it. It is a very early radish, of the turnip-shaped type, bright red with an attractive white tip. It is equally good for forcing or early outdoor culture. Very tender and crisp and of fine flavor. Our seed was grown by Kelways.....Packet, 20c; Ounce, 35c; postpaid

**Early Scarlet Turnip Radish**

A small, early, red, round radish, popular with market gardeners for early planting outdoors.....Pkt., 10c; Oz., 20c; postpaid

**Early Scarlet Turnip White Tipped**

Very early, and a great favorite for forcing and early outdoor culture. The color is a beautiful bright scarlet with the lower quarter white. Very attractive and of good quality.....Pkt., 10c; Oz., 20c; postpaid

**Early White Turnip Radish**

An early, white, turnip-shaped radish, similar to Early Scarlet Turnip except in color.....Pkt., 10c; Oz., 20c; postpaid

**French Breakfast**

A quick growing, small, olive-shaped radish. The color is red with a white tip. A favorite for the home garden, also for forcing under glass.....Pkt., 10c; Oz., 20c; postpaid

**Triumph**

A small, round radish, unique and attractive in color, bright red with distinct white stripes.....Pkt., 10c; Oz., 25c; postpaid

**Early Long Scarlet, White Tip**

An excellent early, long radish, bright scarlet with a white tip, very attractive; smooth, crisp, and of good quality. Small top. Good for forcing or outdoor culture.....Pkt., 10c; Oz., 20c; postpaid

**Long Brightest Scarlet, White Tip**

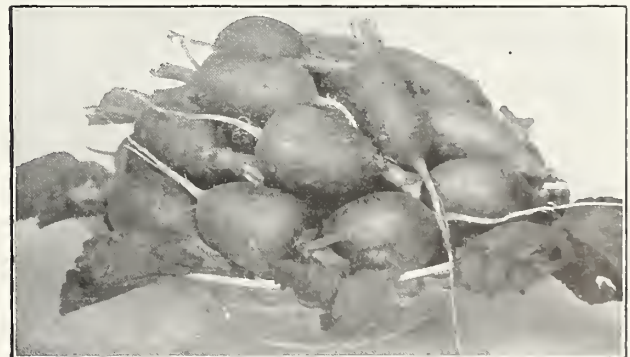
The brightest and handsomest of scarlet radishes. It is very early, and is used for either garden culture or forcing. Has a pure white tip. Remains in good condition until fully grown.....Pkt., 10c; Oz., 20c; postpaid

**Improved Chartier**

A splendid radish for either home or market for summer use. The roots are long and tapering, averaging, when mature, seven or eight inches in length and one and one-quarter inch in diameter. The color is bright scarlet-rose showing to white at the tip.....Pkt., 10c; Oz., 20c; postpaid

**California Mammoth White China**

A very large winter radish, sometimes growing to eighteen inches long. Pure white; very solid, crisp and tender. Keeps well through the winter.....Pkt., 10c; oz., 20c; postpaid



**FRED HALL POULTRY FARM**  
R. F. D. 8, Box 290, Seattle, Wash.

Randall-McLoughlin,  
Seattle.

July 16, 1919

Dear Sirs:

I want to tell you of the results that I have had with the use of your Magotite. There is no doubt that it is a sure remedy for the root maggot. I planted kale, radishes and cabbages year after year, but the root maggots used to get them. This season, after using the Magotite, I have raised three acres of the finest poultry kale that I have ever seen, and the radishes are looking fine. I am more than pleased with Magotite, and shall be a booster for this excellent remedy whenever I get an opportunity.

Yours very truly,

FRED C. HALL



## RHUBARB

**Cultural directions.** Rhubarb does best in a heavy, very rich, deep soil. Sow seed an inch deep in drills. Thin the plants to six inches apart. In the fall transplant four to six feet apart each way in highly manured, deeply stirred soil. The stalks should not be plucked until the second year.

### Mammoth Victoria

A favorite standard variety, very large, thick, red stalks of the finest quality.....Pkt., 10c; Oz., 15c; postpaid

## SALSIFY, OR, OYSTER PLANT

**Cultural directions.** Culture is the same as for parsnips. It is very hardy, and may be left in the ground all winter, but should be dug early in spring.

### Mammoth Sandwich Island

A very desirable winter vegetable, and should be more generally grown. The roots when cooked are very palatable and nutritious, and have a flavor similar to oysters. This is the most popular variety. The roots are long, smooth and white.....Pkt., 10c; Oz., 30c; postpaid



### Delicata

A medium sized fall and winter vine variety. It is a hybrid, and the color and shape varies somewhat, but it is uniformly of fine quality, and is a great favorite for the home garden.....Pkt., 10c; Oz., 20; Lb., \$1.75; postpaid

## HUBBARD

The old favorite, and considered the finest of all winter squashes. Vines vigorous and productive. The fruits are large, with very hard, warted, dark green shell. The flesh is orange-yellow, fine grained, thick, dry and of very rich flavor. Can be kept in good condition until spring.....Pkt., 10c; Oz., 20c; Lb., \$1.75; postpaid

### Golden Hubbard

Similar to Hubbard in shape, but earlier, not so large, and the color is rich orange-red. The flesh is deep orange and of good quality.....Pkt., 10c; Oz., 20c; Lb., \$1.75; postpaid

### Long White Vegetable Marrow

The Marrow Squashes are largely grown in England, and should be more generally used in this country. They are at their best when about half grown. They may be cooked like other squash, or may be fried, in which manner they are superior to Egg Plant.....Pkt., 10c; Oz., 15c; Lb., \$1.50; postpaid

## SWISS CHARD, SPINACH BEET, OR SEA KALE BEET

**Cultural directions.** Swiss Chard is a variety of beet, the edible portion of which is the leaves, which are served like spinach or the midribs are prepared like asparagus. The seed is sown early in spring the same as beets. The tops are cut off a little above the surface of the ground, and will sprout up again.



Mammoth Victoria Rhubarb

## SQUASH

**Cultural directions.** Do not sow until the weather is settled and warm. Prepare the hills by mixing with the soil a generous amount of well rotted stable manure or commercial fertilizer. For the bush varieties make hills three to four feet apart each way; for the vine varieties, eight to ten feet apart. Eight or ten seeds should be sown in each hill, thinning the plants to two or three of the strongest. One ounce of seed for fifty hills; four pounds per acre.

### Yellow Summer Crookneck

The well known standard, early, vine variety, producing bright yellow, densely warted squashes about one foot long with a crooked neck.....Pkt., 10c; Oz., 15c; Lb., \$1.35; postpaid

### Mammoth White Bush Scallop

An early bush variety of large size, flattened, with edges scalloped. The color is creamy white. Vines vigorous and productive.....Pkt., 10c; Oz., 15c; Lb., \$1.35; postpaid

### Boston Marrow

A very productive fall and winter variety of medium to large size. The fruits are oval in shape, bright orange color. The flesh is salmon-yellow, fine grained and of excellent flavor.....Pkt., 10c; Oz., 15c; Lb., \$1.35; postpaid

### Sibley, or Pike's Peak

A very large winter squash. Thin skinned, very solid, and a good shipper, skin pale green, flesh deep orange; fine grained and of good flavor.....Pkt., 10c; Oz., 20c; Lb., \$1.50; postpaid

## KELWAY'S LONG GREEN VEGETABLE MARROW

A splendid bush variety of English Vegetable Marrow, highly recommended by Kelways, from whom we procured our seed. The fruits are long and slim with green striped skin, and the flesh is of the finest quality. This delicious vegetable was almost unknown in this country until recently, but is rapidly becoming popular.....Pkt., 15c; Oz., 35c; Lb., \$2.00; postpaid

### Giant Lucullus

The largest and best variety of Swiss Chard. The leaves are large, broad, undulated, and of an attractive yellowish green color, with large, white midribs .....Pkt., 10c; Oz., 20c; Lb., \$1.50; postpaid



# TOMATO

**Cultural directions.** Plants should be started in a hotbed or in boxes or pots in the house in February or early March, and should not be set outdoors until the weather is settled and warm. If they are to be pruned, they may be set two feet apart in rows three to four feet apart, otherwise they should be set about four feet apart each way. All conditions must be of the very best to grow tomatoes successfully west of the Cascade Mountains.

## SPARK'S EARLIANA

Extremely early, and the standard tomato in the Northwest. The vines are small but vigorous and productive. The fruits are of good size, nearly round, and smoother than other early varieties. They are borne in clusters near the base of the plant. ....Pkt., 10c; Oz., 40c; postpaid

### John Baer

A new variety, largest of the extra early sorts. The fruits are nearly round, smooth, firm, and of fine quality. The vines are very hardy and exceptionally productive. ....Pkt., 10c; Oz., 50c

### Golden Queen

The fruits are golden yellow color, large smooth, and of very fine flavor. ....Pkt., 10c; Oz., 50c

### Dwarf Champion

The vines grow only about two feet high, are vigorous, upright and compact. It is a second early or main crop variety. The fruits are purplish pink, of medium size, smooth and of good quality. ....Pkt., 10c; Oz., 40c

### Early Michigan

A second early, bright red tomato of fine quality. Vines vigorous and productive. Fruits are of medium size, smooth, and very attractive. ....Pkt., 10c; Oz., 40c

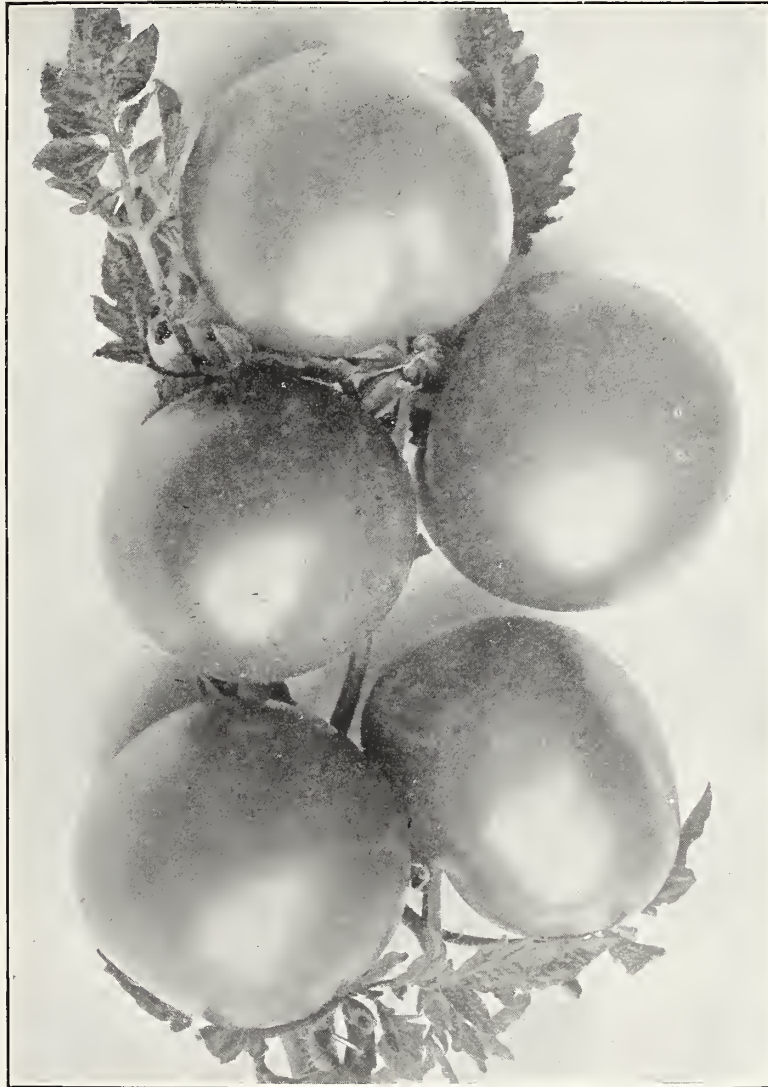
### Acme

Vines large, hardy and productive, ripening first fruits early and continuing for a long time. A good variety for the home garden. Fruits purplish pink, round, smooth and of medium size. ....Pkt., 10c; Oz., 40c

### Atlantic Prize

One of the old well known varieties. Early, of good size, smooth, bright red, and of good quality. ....Pkt., 10c; Oz., 40c

Tomato Plants are listed on page 21.



Spark's Earliana

## Chalk's Early Jewel

One of the best early tomatoes. The vines are vigorous and very productive. The fruits are large, nearly round, somewhat flattened, bright scarlet, and of fine quality. They ripen early and continue through a long season. A favorite for the home garden. ....Pkt., 10c; Oz., 45c; postpaid

## New Stone

A fine, large, main crop or late tomato. Vines large, vigorous and very productive. The fruits are deep scarlet, oval, exceptionally smooth and uniform in size. Very solid and firm, a good shipper and a favorite with canners. ....Pkt., 10c; Oz., 40c

## Ponderosa

A very large late tomato of fine quality. The color is purplish pink. The fruits are very solid, smooth, and have exceptionally few seeds. The vines are vigorous and very productive. ....Pkt., 10c; Oz., 45c

## Yellow Pear

Used for preserves and to make tomato figs. The fruits are very small, distinctly pear shaped, and the color is rich yellow. ....Pkt., 10c; Oz., 55c

## Yellow Cherry

The fruits are less than three-quarters of an inch in diameter, perfectly round and smooth, and of a bright yellow color. Fine for preserves and pickles. ....Pkt., 10c; Oz., 55c

## Ground Cherry, or Husk Tomato

The vines are low and spreading; the fruits only about one-half inch in diameter and enclosed in a loose husk. Very sweet, of mild flavor, and used for preserving. ....Pkt., 10c; Oz., 40c

Use

INVICTA FERTILIZER

# SPINACH

**Cultural directions.** Sow the seed early in fall or very early in spring in drills sixteen to twenty inches apart, and thin the plants to about six inches apart. The soil should be very rich. Plants should be ready for eating in about eight weeks.

## VICTORIA

The most popular variety, forming very large, thick, dark green leaves, slightly crumpled in the center. Becomes fit for use early and remains in that condition longer than most sorts. ....Oz., 10c; Lb., \$1.00; postpaid

## Savoy Leaved Bloomsdale

An early, hardy variety, with large, crumpled, dark green leaves. A standard market spinach. ....Oz., 10c; Lb., \$1.00; postpaid

## Longstanding

A late spinach, remaining a long time in condition for use. The plant is very large, with large, smooth, dark green leaves. ....Oz., 10c; Lb., 85c; postpaid

## New Zealand

Quite different from other varieties, it thrives during hot weather in summer. The plant is large; the leaves small, broad and pointed. ....Pkt., 15c; Oz., 25c; Lb., \$1.50; postpaid

## Thick Leaved Improved

A rapid growing variety, forming large, thick, slightly crumpled, deep green leaves of good quality. ....Oz., 10c; Lb., \$1.00; postpaid

## Prickley Winter

A late variety, usually sown in fall for winter use. Very hardy and long standing. Leaves of medium size, thick, and dark green. ....Oz., 10c; Lb., \$1.00; postpaid



## TURNIP

**Cultural directions.** For summer use, sow the seed early in spring in rows eighteen to twenty-four inches apart. For winter use it may be sown as late as the first of September. During recent years the root maggot has raised such havoc that many have stopped growing turnips and rutabagas, but now these may be easily overcome by using Mag-o-tite.

### KELWAY'S QUICKSILVER

A new variety, not grown in this country before. It is Kelway's special, and for that reason we take it for granted that it must be good. Kelway describes it as follows:

"The quickest growing round white turnip, fine for exhibition; stands winter well when sown late; round, white skinned, with solid white flesh; perfect shape."

Pkt., 20c; Oz., 40c; Lb., \$3.00; postpaid

#### Early Snowball

A very early, pure white turnip of fine appearance. The bulbs are small, nearly round, very tender and sweet.

Pkt., 10c; Oz., 25c; Lb., \$2.00; postpaid

#### Early White Milan

Remarkably early, clear white, smooth, and the flesh is white, mild, sweet and tender.

Pkt., 10c; Oz., 25c; Lb., \$2.00; postpaid

#### Early Purple Top Milan

Very similar to Early White Milan, except that the roots are a little flatter and the upper portion is an attractive purple red.

Pkt., 10c; Oz., 20c; Lb., \$1.75; postpaid

#### Orange Jelly, or Golden Ball

Small, round, smooth, with deep yellow skin. The flesh is firm, crisp, and the finest flavored of the yellow fleshed turnips.

Pkt., 10c; Oz., 15c; Lb., \$1.50; postpaid

#### Petrowski

A new yellow turnip of medium to large size, with distinctive short spreading top. Medium early; nearly round. The flesh is yellow, tender, and of good flavor.

Pkt., 10c; Oz., 25c; Lb., \$2.00; postpaid

#### Early White Flat Dutch

Very early, of medium size, flat. The flesh is very white, fine grained and sweet.

Pkt., 10c; Oz., 15c; Lb., \$1.50; postpaid

## RUTA BAGA, OR SWEDISH TURNIP

#### American Purple Top Improved

Excellent for both table use and stock feeding. It grows very large, uniform in shape, and is a splendid keeper. The flesh is a beautiful yellow color, fine grained, sweet and tender.

Pkt., 10c; Oz., 15c; Lb., \$1.50; postpaid

#### Skirving's Purple Top Ruta Baga

Very similar to American Purple Top; large; round or top-shaped, and of the finest quality.

Pkt., 10c; Oz., 20c; Lb., \$1.75; postpaid

## TOBACCO

**Cultural directions.** The plants should be started in a hotbed or in pots or boxes in the house and transplanted outdoors, four feet apart each way, when danger of frost is past.

#### Connecticut Seed Leaf

A hardy variety adapted to this locality. Leaves are of good width and length, and are used for cigar wrappers.

Pkt., 10c; postpaid

#### Havana

A choice variety; leaf very thin and of fine texture.

Pkt., 10c; postpaid

## MAG-O-TITE

Makes it possible To Grow Turnips, Rutabagas, Radishes, Cabbage, Kale and Onions successfully.



Kelway's Quicksilver Turnip

#### White Egg

An early, white, egg-shaped turnip. The flesh is white, firm, fine grained and sweet.

Pkt., 10c; Oz., 20c; Lb., \$1.75; postpaid

#### Purple Top White Globe

An excellent table turnip of good size, appearance, and quality.

Pkt., 10c; Oz., 20c; Lb., \$1.75; postpaid

#### Purple Top Strap Leaf

A very early, flat turnip of medium size. Flesh white, fine grained and tender.

Pkt., 10c; Oz., 15c; Lb., \$1.50; postpaid

#### Yellow Aberdeen

A large yellow turnip; globe shaped; of good quality and a good keeper. Hardy, productive and an excellent variety for feeding stock.

Pkt., 10c; Oz., 15c; Lb., \$1.50; postpaid

#### Cow Horn, or Long White

This variety often grows a foot long and two and one-half inches in diameter. Splendid for stock, and excellent for table use when young.

Pkt., 10c; Oz., 15c; Lb., \$1.50; postpaid

#### Yellow Swede Ruta Baga

Very hardy and a good keeper. The roots are large, oblong, dull reddish color above ground and yellow underneath.

Pkt., 10c; Oz., 20c; Lb., \$1.75; postpaid

#### White or Sweet Russian

A very desirable table or stock variety. The roots are very large, nearly globe shaped, and the color is white with a shade of green at the top. The flesh is white, very firm and sweet.

Pkt., 10c; Oz., 20c; Lb., \$1.75; postpaid

R. F. D. No. 2, Kirkland, Wash.  
May 24, 1919.

Randall-McLoughlin,  
Seattle.

Gentlemen:—

I have found Mag-o-tite to be just what we wanted. It kills the flea beetles and root maggots, and I think that if sprinkled on cabbage, after they head, it will do away entirely with the cabbage worm. In fact it has put an end to every insect that infects our garden that I have tried it on, and that is a good many.

Yours truly,  
MRS. CHAS. LUTHER.



## SEED POTATOES

These potatoes were grown for us especially for seed, from carefully selected stock, have been properly stored and cared for, and are much superior to those commonly furnished. Good seed potatoes are very scarce this season, and although we have a comparatively large stock, we anticipate a great demand and would advise ordering early.

**BANNER.** A valuable new variety of splendid oval or elongated shape, similar to Irish Beauty. Medium early main crop, a remarkably heavy yielder and a good keeper. The flesh is white and of finest quality.

**PRIDE OF MULTNOMAH.** One of the newer varieties that has become very popular. The tubers are of the ideal elongated type, uniform in size and shape, smooth, with thin, white skin and white flesh of fine quality. Immensely productive.

**IRISH BEAUTY.** A splendid medium early main crop potato, extremely productive and of fine quality. Of uniform shape and size, elongated. The skin is white, eyes few and shallow.

**Early Rose.** The old standard extra early variety, still good if good seed can be procured.

**Irish Cobbler.** One of the best early potatoes. Tubers large, almost round, and handsome. The skin is creamy white, sometimes netted. The flesh is white and of fine quality.

**London Beauty.** A new main crop potato, shaped like Burbank but smoother, of medium large size, uniform and of fine appearance. Cooks dry and fine. Does best on loam soil.

**Million Dollar.** A very large main crop potato, very productive. Oblong, deep eyes.

**Netted Gem.** A splendid main crop late potato that gives best results in the irrigated districts. The tubers are of fine shape, elongated, of medium size, with russet netted skin, and eyes flush with the surface. Flesh white and of the finest quality.

**American Wonder.** One of the best main crop varieties. A strong grower and very productive. Tubers, white, large and of uniform size; elongated. Eyes few and nearly flush with the surface.

**Gold Coin.** A main crop variety of hardy, vigorous growth and great productiveness. Of smooth, regular form, slightly oblong, broad and thick. Skin thin and of light golden color, more or less netted. Eyes small and shallow. Flesh pure white and fine grained.

**Uncle Sam.** Tubers oval with russet white skin and shallow eyes. Mature late.

**Burbank.** Has long been a standard commercial variety. Late and very productive.

Unable to quote prices at time of going to press. Write for prices.

## ARTICHOKES

These tubers are grown the same as potatoes, are remarkably productive, and are of great value for feeding stock, especially hogs. By some they are considered a great delicacy for the table.

Can furnish the tubers from March to May. Price, less than sack lots, 5c per lb. 100 lbs., \$4.50.

## VEGETABLE PLANTS

**CABBAGE PLANTS.** Fine, healthy, sturdy plants of Early Jersey Wakefield, Copenhagen Market, Late Flat Dutch, Early Flat Dutch and Danish Ballhead. From March 1st to July 1st.

Price.....1 doz., 20c; 100, \$1.35

Write for prices on large quantities.

**TOMATO PLANTS.** Fine Earliana, Dwarf Champion and John Baer Tomato Plants, both pot-grown and grown in flats. April 1st to July 1st.

Pot-grown Plants .....1 doz., 50c; 100, \$3.00

Grown in Flats .....1 doz., 25c; 100, \$1.50

**CAULIFLOWER PLANTS.** Early Snowball, Veitch's Autumn Giant, and Danish Dry Weather. April 1st to July 1st.....1 doz., 25c; 100, \$1.75

**CELERY PLANTS.** Golden Self Blanching and White Plume Celery Plants of best quality. April 1st to July 1st.....1 doz., 25c; 100, \$1.50

**BRUSSELS SPROUTS.** Do not fail to grow some of these. A delicious vegetable, deserving of more consideration in this locality.....Doz., 25c; 100, \$1.50

**LETTUCE PLANTS.** Fine plants of the best head varieties. These are pot grown, and will produce splendid heads in a very short time.

Price.....Doz., 15c; 100, \$1.25

**PARSLEY PLANTS.** Pot grown plants of the fine curled varieties. March 1st to August 1st.....Each, 5c; doz., 50c

**CHIVES.** Large clumps that may be divided. Should have a place in every garden. March 1st to August 1st.

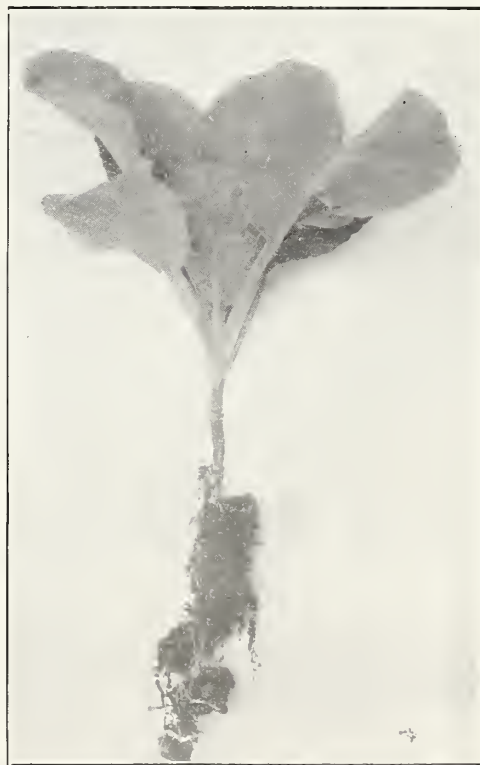
Price.....Per clump, 15c

**LEEK PLANTS.** April 1st to June 1st.

Price.....Doz., 20c; 100, \$1.25

We can furnish any of the above plants in almost unlimited quantities. Market gardeners and others requiring large quantities will please write for special prices.

No prices shown in this catalog include postage, freight or express charges unless so specified.

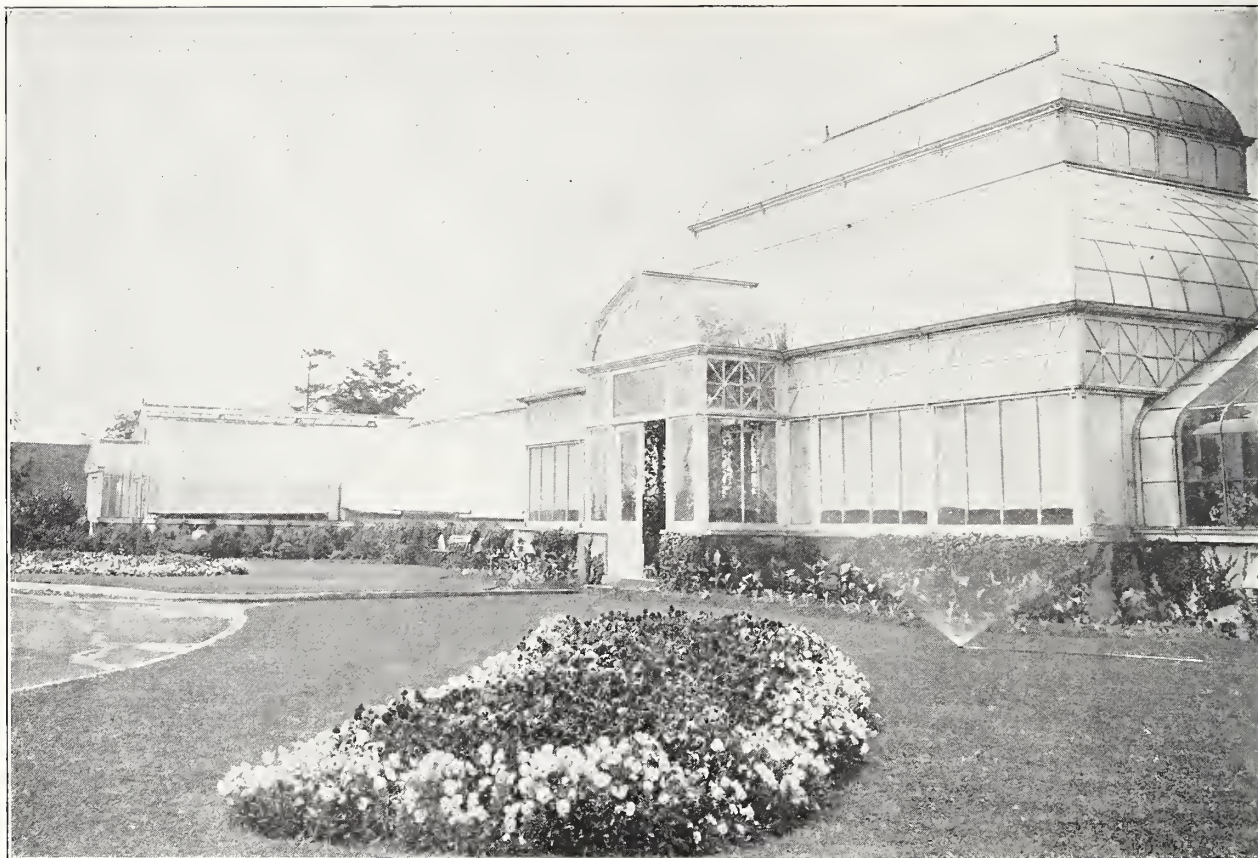


**HORSERADISH ROOTS.** Plant a few in a corner of your garden and you will have a permanent supply with little further care. Can supply them from March 1st to August 1st. Price.....Doz., 30c; 100, \$1.50

**THOUSAND HEADED KALE PLANTS.** To supply green food for poultry and cows. March 15th to September 15th. Price.....Doz., 15c; 100, \$1.00

Plants should be shipped by express when possible. It is impossible to pack them so that they will reach destination in good condition when shipped by parcel post.





Conservatory at Volunteer Park, Seattle.



## FLOWER SEEDS

Carefully Selected Varieties

**T**HE following list has been selected by practical florists, and great care has been taken to choose only the choicest varieties and those that are suitable for our climatic conditions. The seeds have been procured from the most reliable growers in this and foreign countries and nothing is listed that we cannot conscientiously recommend. We wish to call our customers' attention to the fact that although some flowers are as easily grown from seeds as garden vegetables, many of them are quite difficult to get started, and amateurs should follow cultural directions closely. Most failures are on account of planting the seed too deeply, too early, or in improperly prepared soil. Many of the most pleasing and satisfactory flowers are very easy to grow, and those who have not had experience will do well to confine themselves to those varieties.

### ACHILLEA (Milfoil, or Yarrow)

*Achillea Ptarmica*, "The Pearl". Hardy perennial, two feet high. Covered with heads of pure white flowers from spring until frost. Easily grown from seed.....Pkt., 10c, postpaid

### ACROLINIUM (Everlasting)

Half hardy annuals, fifteen inches high, bearing daisy-like flowers. The "Immortelles" so desirable for winter bouquets. Double, Mixed colors.....Pkt., 10c

### AGERATUM (Floss Flower)

A hardy annual of bushy habit, fine for beds and borders. Attractive feathery flowers borne in dense clusters.  
*Mexicanum Album*, White.....Pkt., 10c  
*Blue Perfection*, Dark blue.....Pkt., 10c

### AGROSTEMMA (Rose of Heaven, Mullein Pink)

*Coronaria*. A free flowering hardy perennial of easy culture, producing the first season crimson flowers like a single Pink. Foliage silvery white. Two feet high.....Pkt., 10c

### ALYSSUM (Mad Wort)

*Little Gem*, or *Carpet of Snow*. A pretty little hardy annual, four inches high, covered with a mass of white bloom from spring to late in fall. Fine for edging.....Pkt., 10c

### AMARANTHUS (Love Lies Bleeding)

*Caudatus*. An annual, thriving in a hot, sunny location, five feet high and bearing brilliant blood-red foliage.....Pkt., 10c

### AMPELOPSIS (Boston Ivy)

*Ampelopsis Veitchi*. A hardy perennial climber with olive-green leaves which turn scarlet in autumn.....Pkt., 10c, postpaid

### ANEMONE (Wind Flower)

*Coronaria*. Poppy Anemone. Hardy perennial, among the earliest of spring flowers. Flowers, in various colors, are about two inches across, and resemble poppies.....Pkt., 10c

### ANTIRRHINUM (Snapdragon)

These attractive and interesting perennials bloom the first year from seed and are handled as annuals. The long, showy spikes are brilliantly colored, fragrant, and desirable for cutting. Sow seed very early under glass, and transplant when warm.

*Brilliant*, Scarlet, gold and white. Two feet.....Pkt., 10c  
*Fire King*, Scarlet and orange. Two feet high.....Pkt., 10c  
*Venus*, Pink and white. Two feet high.....Pkt., 10c  
*Silver Pink*, Pink. Two feet high.....Pkt., 10c  
*Queen Victoria*, Pure white. Two feet high.....Pkt., 10c  
*All Colored Mixed*. A fine mixture of tall varieties.....Pkt., 10c  
*Tom Thumb Mixed*, Dwarf varieties, mixed colors.....Pkt., 10c

### AQUILEGIA (Columbine)

A hardy perennial forming permanent clumps, easily grown. Blooms profusely early in season and remains in bloom for a considerable time.

*Single Mixed*, Single flowers, mixed colors.....Pkt., 10c  
*Double Mixed*, Double flowers, mixed colors.....Pkt., 10c



**ARABIS (Rock Cress)**

**Arabis Alpina.** Among the earliest blooming plants. Used for rock work, edgings, etc. Bears a profusion of small, pure white flowers. Hardy perennial.....Pkt., 10c, postpaid

**ARCTOTIS (African Daisy)**

**Arctotis Grandis.** Large, showy flowers, white on the upper surface and lilac-blue on the reverse side of petals, borne on bushes two to three feet high. Annual.....Pkt., 10c, postpaid

**ASTERS**

Every garden should contain Asters, for they are among the most important and satisfactory of our annual flowering plants, and are in bloom late in summer and fall when there is a dearth of flowers. The modern Aster is a great improvement over the old sorts, and some of them are nearly equal to Chrysanthemums in size and form. For early flowers, seed should be sown under glass in April, and the plants set outdoors when weather is warm. Seed may be sown in seed bed in May and the plants transplanted to the permanent bed when two or three inches high. They should be set nine to twelve inches apart in soil that has been made very rich with bone meal or other commercial fertilizer.

**CREGO'S GIANT ASTERS**

The finest and largest of the Comet Asters, bearing immense fluffy flowers as fine as Chrysanthemums. They keep in good condition longer than others when cut.

Crego's Giant, White .....Postpaid, Packet, 10c  
Crego's Giant, Pink .....Packet, 10c  
Crego's Giant, Lavender .....Packet, 10c  
Crego's Giant, Crimson .....Packet, 10c  
Crego's Giant, Crimson .....Packet, 10c  
Crego's Giant, Rose .....Packet, 10c  
Crego's Giant, Purple .....Packet, 10c  
Crego's Giant, Finest Mixed. All colors.....Packet, 10c

**SEMPLER'S BRANCHING ASTERS**

Splendid late-flowering Branching Asters. The flowers are large, very double, and are borne on long stems. The plant is robust, branching, and grows about two feet high.

Semple's Branching, White .....Postpaid, Packet, 10c  
Semple's Branching, Rose .....Packet, 10c  
Semple's Branching, Light Blue .....Packet, 10c  
Semple's Branching, Shell Pink .....Packet, 10c  
Semple's Branching, Lavender .....Packet, 10c  
Semple's Branching, Crimson .....Packet, 10c  
Semple's Branching, Royal Purple .....Packet, 10c  
Semple's Branching, Finest Mixed. All colors.....Packet, 10c

**OSTRICH FEATHER ASTERS**

This is a magnificent Aster, producing flowers of immense size, made up of long, loosely formed petals. The plant grows two to two and one-half feet in height, is medium early, and very productive. When used for cutting, the flowers should be picked when about half expanded and allowed to develop in water in a cool room.

Ostrich Feather, White .....Postpaid, Packet, 10c  
Ostrich Feather, Shell Pink .....Packet, 10c  
Ostrich Feather, Light Blue .....Packet, 10c  
Ostrich Feather, Dark Blue .....Packet, 10c

**DWARF CROWN ASTER**

Bushy plants, nine inches high, bearing large, perfectly double flowers. Fine for either garden or pot culture. All finest colors, mixed .....Packet, 10c

**ASPARAGUS**

**Asparagus Sprengeri** (Emerald Feather). A most graceful house plant; valuable for hanging baskets. Sprays three to four feet long. Light green.....Pkt., 10c; postpaid

**BALSAM (Lady Slipper)**

A well known border and bedding annual with brilliantly colored double rose-like flowers, thickly set along the branches. Double, or Camelia Flowered, Mixed.....Packet, 10c

**BALLOON VINE (Love in a Puff)**

A rapid growing annual climber bearing white flowers. The seed vessels look like miniature balloons.....Packet, 10c

**BELLIS (English Daisy)**

**Bellis Perennis**, Double, Mixed. Pretty little perennials blooming from seed the first season. Easy to grow.....Packet, 10c

**CALENDULA (Pot Marigold)**

One of the best and showiest free-flowering hardy annuals. Blooms continuously from early summer until killed by frost. Flowers are in various bright shades of yellow. Grows about one foot high. Fine for beds and borders.....Packet, 10c

**CALLIOPSIS**

A showy free-flowering annual of the easiest culture, bearing all summer a profusion of pretty flowers in shades of yellow, red and brown.

Tall Double Varieties, Mixed. Two feet high.....Packet, 10c  
Tall Single Varieties, Mixed. Two feet high.....Packet, 10c  
Dwarf, Double and Single, Mixed. One foot.....Packet, 10c

**CAMPANULA (Canterbury Bells)**

Well known, beautiful, hardy herbaceous perennials, bearing a great profusion of attractive bell-shaped flowers. **Calycanthemum** (Cup and Saucer Canterbury Bells). The finest type of this splendid old-fashioned garden plant. Mixed .....Packet, 10c

A highly developed type of Aster with flowers of immense size composed of long, wavy, twisted petals gracefully formed into loose densely double half globes.

Giant Comet, White .....Postpaid, Packet, 10c  
Giant Comet, Crimson .....Packet, 10c  
Giant Comet, Light Blue .....Packet, 10c  
Giant Comet, Dark Blue .....Packet, 10c  
Giant Comet, Rose .....Packet, 10c  
Giant Comet, Finest Mixed. All colors.....Packet, 10c

**QUEEN OF THE MARKET ASTERS**

An extremely early and profuse blooming variety. The plants are about eighteen inches high, compact and branching. The flowers are somewhat flattened and not so large as others, but are borne on long stems, and are fine for cutting.

Queen of the Market, White .....Postpaid, Packet, 10c  
Queen of the Market, Lavender.....Packet, 10c  
Queen of the Market, Light Blue .....Packet, 10c  
Queen of the Market, Crimson .....Packet, 10c  
Queen of the Market, Crimson .....Packet, 10c  
Queen of the Market, Scarlet .....Packet, 10c  
Queen of the Market, Rose .....Packet, 10c  
Queen of the Market, Purple .....Packet, 10c  
Queen of the Market, Finest Mixed. All colors.....Packet, 10c

**PERENNIAL ASTER (Michaelmas Daisy)**

Single, fall-flowering, hardy herbaceous plants, thriving in any good garden soil. If sown early they will flower the first season from seed. Mixed colors.....Packet, 10c

Medium (Single Canterbury Bells). The old-fashioned sort with beautiful bell-shaped blossoms. Mixed colors.....Pkt., 10c

**CANARY BIRD VINE**

A climbing annual, growing ten to fifteen feet high, bearing pretty bright yellow flowers resembling a canary bird with wings expanded.....Postpaid, Packet 10c

**CANDYTUFT**

Well known profuse flowering garden annuals forming bushy plants a foot high carrying large umbels of flowers. **Empress, or Giant Hyacinth-flowered, White.** The finest of all the white varieties .....Packet, 10c  
**Iberis Umbellata, Crimson.** Deep rich crimson.....Packet, 10c  
All Colors, Mixed. A fine mixture.....Packet, 10c

**CANNA**

The finest of bedding plants, bearing immense Gladiolus-like flowers of the most brilliant colors for a long period.

Crozy's Dwarf Mixed .....Packet, 10c

**CARDINAL CLIMBER**

**Scarlet Queen Cypress Vine.** This new hybrid Cypress Vine is one of the most beautiful climbing annuals. The foliage is rich, glossy green, against which the large, brilliant scarlet, tubular flowers contrast most vividly.....Packet, 10c

**CARNATION**

Carnations are general favorites for their delicious fragrance and richness of colors. The Marguerites are most popular for outdoor culture for they begin flowering a few weeks after the seed is sown.

Marguerite, Finest Double, Mixed.....Packet, 10c  
Giant, or Malmaison, Mixed.....Packet, 10c

**CELOSIA CRISTATA (Cockscomb)**

Very popular annuals of easy culture, producing large, ornamental, comb-like heads. ....Packet, 10c



**CENTAUREA CYANUS**

These are known as Cornflower, Bachelor's Button, Blue Bottle and Ragged Sailer, and are found in all old-fashioned gardens. They are hard annuals of the easiest culture.

Cyanus, Double, Blue.....	Pkt., 10c, postpaid
Cyanus, Double, Pink.....	Pkt., 10c, postpaid
Cyanus, Double, Mixed colors.....	Pkt., 10c, postpaid
Cyanus, Single, Dark Blue.....	Pkt., 10c, postpaid
Cyanus, Single, Mixed colors.....	Pkt., 10c, postpaid

**CHRYSANTHEMUM**

Coronarium, Double, Mixed colors. Showy and effective hardy garden annuals. They are summer flowering border plants, quite distinct from the perennial greenhouse Chrysanthemums.

..... Pkt., 10c

**CHRYSANTHEMUM****LEUCANTHEMUM**

(Shasta Daisy)

One of the finest hardy perennials for permanent garden decoration. When well grown the magnificent pure white flowers are four inches or more across, on stems eighteen to twenty-four inches long. The plants are two to three feet high, very hardy, and flower in great profusion.

..... Pkt., 10c

**CINERARIA**

Magnificent flowering plants for spring decoration in the conservatory or window garden.

Tender perennial. *Cineraria Hybrid Grandiflora*, Mixed.....

..... Pkt., 25c.

**CLARKIA**

A pretty and easily grown garden annual. The plants grow about two feet high and bear during the summer a profusion of rose, white, red and purple flowers.

Double, White..... Pkt., 10c

Double, Purple King..... Pkt., 10c

Double, Salmon Queen..... Pkt., 10c

Double, Mixed colors..... Pkt., 10c

**COBAEA SCANDENS (Cups and Saucers Vine)**

A rapid growing climber with dark green foliage and bell-shaped flowers. A tender perennial, but generally grown as an annual. May be grown in the conservatory in winter.

*Cobaea Scandens*, Blue..... Postpaid, Pkt., 10c

*Cobaea Scandens*, White..... Postpaid, Pkt., 10c

**COIX LACHRYMAE (Job's Tears)**

A curious ornamental grass with broad, corn-like leaves and lustrous slate colored seeds. Hardy annual..... Pkt., 10c

**CONVOLVULUS (Morning Glory)**

One of the most free flowering and rapid growing annual climbers. Very easy to grow.

*Convolvulus Major*. Grows fifteen feet high..... Pkt., 10c

*Convolvulus Minor*. A dwarf variety for bedding..... Pkt., 10c

**COREOPSIS**

*Lanceolata Grandiflora*. A fine hardy perennial, easily grown from seed, flowering the first year if sown early. Large, showy bright yellow flowers are produced in abundance from June until frost. Splendid for cut flowers..... Pkt., 10c

**COSMOS**

Beautiful autumn blooming annuals, producing an abundance of artistic flowers in white, pink and crimson shades at a time when other flowers are scarce. Mammoth flowering varieties.

White..... Pkt., 10c      Lady Lenox, White..... Pkt., 10c

Pink..... Pkt., 10c      Lady Lenox, Pink..... Pkt., 10c

Crimson..... Pkt., 10c      Finest Mixed..... Pkt., 10c

**CYCLAMEN**

*Cyclamen Persicum*. Charming house plants with beautiful foliage and rich colored fragrant flowers. Mixed colors.....

..... Pkt., 10c

**DAHLIAS**

These fine late summer and autumn plants may be grown from seed, and the double varieties will bloom the first year if sown early. When grown from seed there is liable to be some variation in types and colors.

Cactus Flowered, Finest Mixed..... Pkt., 10c

Collarette Varieties, Mixed..... Pkt., 10c

Single Double Varieties, Mixed..... Pkt., 10c

Finest Single Varieties..... Pkt., 10c

**DELPHINIUM (Hardy Perennial Larkspur)**

These splendid perennial Larkspurs, with their long clustered spikes of beautiful flowers with long spurs, are valuable for their shades of blue. Hardy, and very easy to grow.

*Delphinium Formosum*, Light Blue..... Pkt., 10c, postpaid

*Delphinium Formosum*, Dark Blue..... Pkt., 10s, postpaid

**DIANTHUS (China Pinks)**

These pretty hardy annuals are very easy to grow. The seed may be sown outdoors when danger of frost is past, and in a few weeks the plants will be a mass of bloom, continuing until killed by frost.

*Dianthus Chinensis*, Double, Mixed colors..... Pkt., 10c

*Dianthus Heddegi*, Double, Fireball..... Pkt., 10c

*Dianthus Heddegi*, Double, Mixed colors..... Pkt., 10c



Shasta Daisies. *Chrysanthemum Leucanthemum*.

**DIGITALIS (Foxglove)**

Highly ornamental perennial plants of stately growth, easy to grow and requiring little attention. Four feet high.

*Gloxinia Flowered*, Mixed colors..... Pkt., 10c

**ECHINOCYSTIS LOBATA (Wild Cucumber Vine)**

One of the quickest growing annual vines, splendid for covering trellises, fences, etc..... Pkt., 10c

**ESCHSCHOLTZIA (California Poppy)**

One of the most pleasing and easily grown hardy annuals.

*Californica*. The true California Poppy. Yellow..... Pkt., 10c

*Eschscholtzia*, Crimson. Rich crimson..... Pkt., 10c

*Eschscholtzia*, Mixed. All colors, mixed..... Pkt., 10c

**EUPHORBIA**

*Euphorbia Variegata* (Snow on the Mountain). Of rank, branching growth, about two feet high. The foliage is light green broadly margined with silvery white, giving the effect of "Snow on the Mountain."..... Pkt., 10c

**GAILLARDIA**

*Lorenziana*, or Double Flowering. Very showy garden annuals bearing a profusion of large, double, brilliantly colored flowers from early summer until late fall. Mixed colors..... Pkt., 10c

**GERANIUM (Pelargonium)**

*Zonale*, Mixed. A very interesting plant to grow from seed, which should be started indoors..... Pkt., 10c

**GEUM (Avens)**

*Coccineum*. Pretty border plants, growing about fifteen inches high, and producing showy, bright colored flowers..... Pkt., 10c

**GILIA**

A hardy annual growing one foot high, bearing white, lilac or rose-colored flowers, valuable for rock work or borders. Mixed colors..... Pkt., 10c

**GODETIA**

Attractive hardy annuals, bearing profusely showy flowers of satiny texture in many rich and varied colors.

Tall Varieties, Mixed. All colors..... Pkt., 10c

Dwarf Varieties, Mixed. All colors..... Pkt., 10c



**GOLDEN ROD (*Solidago Canadensis*)**

A well known golden yellow hardy perennial, three to five feet high .....Pkt., 10c, postpaid

**GOURDS**

The ornamental gourds are rapid growing, climbing annuals, interesting on account of the great variety of singular shapes and colors .....Pkt., 10c

**ORNAMENTAL GRASSES**

These ornamental grasses are very effective and ornamental for beds, groups, and backgrounds.....Pkt., 10c

**GYPSOPHILA (*Baby's Breath*)**

Delicate free-flowering plants covered with very small star-shaped flowers, producing a mist-like effect, used for trimming bouquets, also good in hanging baskets and edgings.

*Elegans Grandiflora Alba*. Pure white, annual.....Pkt., 10c  
*Paniculata Alba*. Hardy perennial, pure white.....Pkt., 10c

**HELICHRYSUM (*Straw Flower*)**

*Monstrosum*, *Finest Mixed*. One of the best of the "Everlastings," making a fine display in beds or borders.....Pkt., 10c

**HELIOTROPE**

Half-hardy perennials, flowering during the whole season. Delightfully perfumed, and desirable for bouquets.....Pkt. 10c

**HIBISCUS (*Marshmallow*)**

*Giant Yellow*, or *Golden Bowl*. Showy perennials with flowers of rich cream with maroon centers, six to nine inches in diameter .....Pkt., 10c

**HOLLYHOCK**

One of the most majestic of garden plants, giving garden effects that cannot be obtained with any other plants.

*Chater's Superb Double*, *Newport Pink* .....Pkt., 10c  
*Chater's Superb Double*, *White* .....Pkt., 10c  
*Chater's Superb Double*, *Crimson* .....Pkt., 10c  
*Chater's Superb Double*, *Rose* .....Pkt., 10c  
*Chater's Superb Double*, *Scarlet* .....Pkt., 10c  
*Chater's Superb Double*, *Yellow* .....Pkt., 10c  
*Chater's Superb Double*, *Maroon* .....Pkt., 10c  
*Chater's Superb Double*, *Finest Mixed Colors* .....Pkt., 10c

**HUMULUS (*Japanese Hop*)**

*Japonicus*. A very ornamental and rapid growing climbing annual. Attains a height of twenty to thirty feet .....Pkt., 10c

**IPOMOEA**

Beautiful annual climbers of luxuriant growth and beautiful and varied flowers. The different varieties are quite distinct.

*Ipomoea Noctiflora* (*Moon Flower*). Covered with large, pure white, fragrant flowers at night and during dull days. Pkt., 10c  
*Ipomoea Bona Nox* (*Evening Glory*). Violet blue flowers open in the evening .....Pkt., 10c  
*Ipomoea Quamoclit* (*Cypress Vine*). Beautiful dark green feathery foliage and star-shaped flowers in various colors. ....Pkt., 10c

**KOCHIA (*Summer Cypress*, or *Belvedere*)**

*Trichophylla*. An easily grown annual, forming a cypress-like hedge, green in summer, turning red in fall.....Pkt., 10c

**KUDZU VINE**

A twining perennial vine attaining a height of forty to fifty feet in one season after roots are established. Foliage large and very dense .....Pkt., 10c

**LARKSPUR**

Popular garden annuals with spikes of splendid flowers in varied shades of red, blue, white, etc. Easy to grow.

*Finest Tall*, *Double*. *Stock-flowered*, *Mixed* .....Pkt., 10c  
*All Varieties and Colors*, *Mixed*.....Pkt., 10c

**LATHYRUS LATIFOLIUS**

*Everlasting*, or *Hardy Sweet Pea*. Showy, free-flowering hardy perennial climbers, continually in bloom .....Pkt., 10c

**LINUM (*Flowering Flax*)**

*Grandiflorum Rubrum* (*Scarlet Flax*). An attractive, free-flowering bedding annual bearing clusters of bright red flowers. Grows about eighteen inches high .....Pkt., 10c

**LEMON VERBENA**

*Aloysia Citriodora*. An old favorite with delightfully scented foliage. Grown in garden in summer, in pots in winter. Pkt., 10c

**LOBELIA**

Compact little bushes, about six inches high, fairly covered with bloom throughout the season.

*Crystal Palace*. Bright, deep blue flowers.....Pkt., 10c  
*Compacta*. Dark green foliage and sky-blue flowers.....Pkt., 10c  
*Gracilis*. ..*Trailing*. Light blue .....Pkt., 10c  
*Speciosa*. ..*Trailing*. Ultramarine blue .....Pkt., 10c

**LUPINUS (*Lupine*)**

The annual Lupines are very easily grown. They grow about two feet high, and bear graceful spikes of various colored pea-shaped flowers, valuable for borders, beds and for cutting.

*Tall*, *Annual Varieties*, *Mixed colors* .....Pkt., 10c  
*Dwarf*, *Annual Varieties*, *Mixed colors* .....Pkt., 10c

**LYCHNIS (*Rose Campion*, *Jerusalem Cross*)**

*Chaledonia*. A handsome hardy perennial, growing two feet high, and bearing handsome scarlet flowers.....Pkt., 10c

**MARIGOLD**

The Marigolds are old favorite free-flowering annuals of easy culture. The African Marigolds bear large yellow or orange-colored flowers, and are adapted for large beds or mixed borders. The French Marigolds are dwarfer in growth, with beautifully striped flowers, and are better suited for bedding or pot culture.

*Dwarf French*, *Double Varieties*, *Mixed Colors* .....Pkt., 10c  
*Tall French*, *Double Varieties*, *Mixed colors* .....Pkt., 10c  
*Dwarf African*, *Double Varieties*, *Mixed colors* .....Pkt., 10c  
*Tall African*, *Double Varieties*, *Mixed colors* .....Pkt., 10c

**MARVEL OF PERU, OR FOUR O'CLOCKS**

*Mirabilis Jalapa*. Beautiful summer blooming annuals of bushy habit, two feet high, bearing throughout the summer large white, yellow, crimson and striped flowers .....Pkt., 10c

**MESEMBRYANTHEMUM**

*Crystallinum* (*Ice Plant*). Dwarf, trailing, annual plants, with white flowers, prized for its singular icy foliage .....Pkt., 10c

**MIGNONETTE (*Reseda*)**

Well known, fragrant, hardy annuals, producing dense cone-shaped flower spikes made up of thickly set florets.

*Reseda Odorata Grandiflora*. Large flowered, very sweet, light yellowish-white .....Pkt., 10c  
*Goliath*, *Red*. Of strong, compact habit. *Red* .....Pkt., 10c  
*Allen's Defiance*. A splendid variety for greenhouse culture. Long spikes of flowers .....Pkt., 10c  
*Golden Machet*. Massive spikes of golden-yellow.....Pkt., 10c

**MYOSOSTIS (*Forget-Me-Not*)**

A favorite old-fashioned perennial bearing a profusion of dainty blossoms in spring and fall.

*Alpestris*, *Blue*. Rich indigo-blue flowers .....Pkt., 10c  
*Alpestris*, *Mixed*. All colors .....Pkt., 10c

**NASTURTIIUMS**

Nasturtiums are the most pleasing and satisfactory annuals, for no other will produce such a profusion and diversity of blooms and colors for such a long period with so little care.

They may be grown almost any place, under almost any conditions, and have a place in any sort of garden from a large estate or park to a window box or pot in an apartment. They are not particular as to soil or location, but do best in ordinary garden soil, exposed to the sun, and not too moist.

Nothing can excel a bed or border of the dwarf varieties, or a trellis, fence, stump or rockery covered with the tall varieties. The seed is simply sown in spring, after danger of freezing weather is past, in the permanent location, and covered about one inch deep. After that they require no attention except to pick the flowers, and the more there are picked the more there will be.

**DWARF, OR BEDDING NASTURTIIUMS**

*Vesuvius*. Dark foliage; salmon-rose flowers.....Pkt., 10c; oz., 30c  
*Pearl*. Creamy white flowers .....Pkt., 10c; oz., 30c  
*King of Tom Thumbs*. Dark scarlet.....Pkt., 10c; oz., 30c  
*Crystal Palace Gem*. Yellow and maroon.....Pkt., 10c; oz., 30c  
*Chameleon*. Various colored flowers .....Pkt., 10c; oz., 30c  
*Beauty*. Scarlet, blotched canary .....Pkt., 10c; oz., 30c  
*Dwarf Varieties*, *Mixed*. All colors .....Pkt., 10c; oz., 30c

**TALL, OR CLIMBING NASTURTIIUMS**

*Jupiter*. Brilliant golden-yellow .....Pkt., 10; oz., 30c  
*Hemispherican*. Orange. Very handsome.....Pkt., 10c; oz., 30c  
*Giant of Battles*. Yellow, blotched red.....Pkt., 10c; oz., 30c  
*Edward Otto*. Brownish lilac .....Pkt., 10c; oz., 30c  
*Chameleon*. A variety of colors .....Pkt., 10c; oz., 30c  
*King Theodore*. Rice, deep red.....Pkt., 10c; oz., 30c  
*King of Blacks*. Deep velvety garnet .....Pkt., 10c; oz., 30c  
*Twilight*. Yellow and salmon-rose .....Pkt., 10c; oz., 30c  
*Tall Varieties*, *Mixed*. All colors .....Pkt., 10c; oz., 30c



**NICOTIANA (Flowering Tobacco)**

*Nicotiana Affinis* (Tuberose-flowered Tobacco). Delightfully sweet scented, pure white, tubular flowers, blooming continually. Annual; two to three feet high.....Pkt., 10c  
*Nicotiana Sanderae Hybrids*. A splendid type in a great variety of colors.....Pkt., 10c

**NIGELLA (Love in a Mist)**

Lovely garden annuals growing in bush form, twelve to fifteen inches high. In the finely cut fern-like green foliage nestle numerous large double flowers of light blue or white.....Pkt., 10c

**OENOTHERA (Evening Primrose)**

Evening Primroses bloom the entire summer, and are elegant for growing in borders or rockeries in exposed sunny positions. Hardy perennial.....Pkt., 10c

**PHLOX**

*Phlox Drummondii Grandiflora*. For beds and massing nothing can surpass these beautiful annuals. They produce immense trusses of large brilliant flowers throughout the summer. Mixed colors.....Pkt., 10c

**POPPY**

These well known hardy annuals flower in great profusion throughout the summer, are easy to grow, and are very pleasing in beds and borders.

*Shirley*. Large single flowers of delicate colors.....Pkt., 10c  
*Glaucum, or Tulip Poppy*. Resembles a scarlet Tulip. Pkt., 10c  
*Paeony Flowered*. Large, showy, double flowers.....Pkt., 10c  
*Carnation Flowered*. Double, fringed. Mixed colors.....Pkt., 10c  
*Ranunculus Flowered*. Double flowers; mixed colors.....Pkt., 10c

**PANSIES**

The cool, moist climate of the Pacific Northwest is ideal for producing the most perfect pansies, and in no other locality do they attain such immense size or perfection of form and color, or bloom so continuously. Seed may be sown in seed bed when weather is settled in spring, and the plants transplanted when an inch high, or the seed may be sown in fall and the plants wintered over in a cold frame for early blooms the next spring. Pansies require a cool, partially shaded position, a rich loam soil, thorough cultivation and plenty of moisture. Blooms should be kept picked, for they stop blooming as soon as seed pods are allowed to form.

**STEELE'S MASTODON PANSIES**. This type is noted for its immense size, magnificent form and splendid colors. They are unsurpassed in any way. Our seed is procured from the originators, Steele's Pansy Gardens, in Oregon. This is a choice mixture of the best colors.....Pkt., 25c  
**Dr. Faust, or King of the Blacks**. Immense velvety black flowers of the finest quality.....Pkt., 10c

**PENTSTEMON**

These produce brilliant color effects in beds, groups or borders. Best grown as half-hardy annuals. Two feet.....Pkt., 10c

**PERILLA NANKINENSIS**

A bedding annual, growing one foot high, with effective, dark red ornamental foliage.....Pkt., 10c

**PETUNIA**

Very effective for either outdoor or house culture. They commence flowering early and continue a sheet of bloom until killed by frost. Of easy culture, only requiring good soil and a sunny position. Grows about eighteen inches high.

**Giants of California**. As large as Hollyhocks, and very double. A special mixture of finest colors.....Pkt., 25c  
**Hybrida**. A special mixture of fine hybrids.....Pkt., 25c

**Cardinal**. Of very large size and rich scarlet color. A very striking bedding variety.....Pkt., 10c  
**Gold Margined**. Maroon with a gold border around the edge. Large and very showy.....Pkt., 10c  
**Choice Varieties, Mixed**. A choice mixture of many of the finest varieties and colors.....Pkt., 10c

—PANSY PLANTS are listed on page 31—

**PORTULACA (Sun Plant)**

A fine hardy annual plant. Flowers of rich colors produced throughout the summer. Fine for bedding, edgings or rock-work.

**Grandiflora, Single, Mixed**. All colors.....Pkt., 10c  
**Grandiflora, Double, Mixed**. Large double flowers.....Pkt., 10c

**PRIMULA (Primrose)**

**Obconica Grandiflora**. Indispensable for winter and spring decoration in the home or conservatory, flowering abundantly and continuously. Easy to grow. Mixed colors.....Pkt., 25c

**PYRETHRUM**

**Aureum (Golden Feather)**. Dwarf plants about eight inches high, used for ribbon and carpet bedding. The foliage is bright yellow. They are perennials, but are usually grown as annuals.....Pkt., 10c



**RHODANTHE (Strawflower)**

An "Everlasting," for dried winter bouquets, in white, pink, red, etc. Garden annuals, one foot high, blooming continuously. Also used for pot plants .....Pkt., 10c

**RICINUS (Castor Oil Plant)**

Tall, majestic plants, with broad, palm-like leaves and long spikes of scarlet or green prickly seed pods .....Pkt., 10c

**SALPIGLOSSIS**

A very showy bedding or border annual with richly colored funnel-shaped flowers borne on long graceful stems. Very easily grown. Mixed colors .....Pkt., 10c

**SALVIA (Flowering Sage)**

**Splendens (Scarlet Sage).** Bushy garden plants, about three feet high, producing during the summer and fall dazzling scarlet flowers in great profusion. It is a tender perennial, but blooms the first year, and may be handled as an annual .....Pkt., 10c

**SAPONARIA (Bouncing Bet)**

A very pretty and useful annual growing about two feet high and bearing masses of satiny flowers somewhat like an enlarged Gypsophila.

**Calabrica Multiflora.** Red .....Pkt., 10c  
**Vaccaria Multiflora.** Rose .....Pkt., 10c



INOCULATE THIS  
SEED WITH  
MULFORD CULTURE

**SCABIOSA (Mourning Bride)**

Fine garden annuals bearing beautiful flowers on long stems from July until killed by frost. Splendid for cutting.

**Tall, Double Varieties, Mixed.** Thirty inches .....Pkt., 10c  
**Dwarf, Double Varieties, Mixed.** Fifteen inches .....Pkt., 10c

**SCHIZANTHUS (Butterfly or Fringe Flower)**

**Grandiflora, New Hybrids.** One of the airiest and daintiest flowers imaginable, especially adapted for bordering beds of taller flowers; also desirable pot plants. Mixed .....Pkt., 10c

**SILENE (Catch Fly)**

A hardy annual, growing about one foot high, bearing small, attractive flowers in various colors. Valuable for bedding, and easy to grow. Mixed colors .....Pkt., 10c

**SMILAX.**

**Myrsiphyllum Asparagoides.** A very useful, and one of the most graceful climbers for adorning the greenhouse or conservatory. Indispensable for bouquets and floral decorations. ....Pkt., 10c

**SOLANUM**

**Capsicastrum (Jerusalem Cherry).** A very useful pot plant for winter decoration. One foot high, bearing a great profusion of bright scarlet berries .....Pkt., 10c

**STATICE (Sea Lavender)**

Splendid hardy perennials for border or rockery, producing all summer panicles of minute flowers which can be dried and used for winter bouquets .....Pkt., 10c

**STEVIA**

**Serrata.** A tender perennial, eighteen inches high, bearing clusters of small, white, fragrant blossoms .....Pkt., 10c

**STOCKS (Gilliflower)**

Stocks are among the most popular annuals for both bedding and pot culture. Their brilliancy, diversity of color, fragrance, profusion and duration of bloom is unsurpassed.

**Large-Flowering, Dwarf, Ten-Week, White** .....Pkt., 10c  
**Large-Flowering, Dwarf, Ten-Week, Light Blue** .....Pkt., 10c  
**Large-Flowering, Dwarf, Ten-Week, Dark blue** .....Pkt., 10c  
**Large-Flowering, Dwarf, Ten-Week, Rose** .....Pkt., 10c  
**Large-Flowering, Dwarf, Ten-Week, Crimson** .....Pkt., 10c  
**Large-Flowering, Dwarf, Ten-Week, Canary Yellow** .....Pkt., 10c  
**Large-Flowering, Dwarf, Ten-Week, Mixed Colors** .....Pkt., 10c  
**Giant Perfection, All Colors, Mixed** .....Pkt., 10c  
**Mathiola, Sweet Scented Stocks** .....Pkt., 10c

## SPECIAL COLLECTION SPENCER SWEET PEAS

12 Choicest Colors \$1.00

**POSTPAID**

We have selected one each of the twelve most desirable colors in the magnificent Spencer Sweet Peas, and have packed a great number of these collections ready for shipment. By doing this before the busy season in spring we are able to offer them at a greatly reduced price.

These seeds come from the same splendid stocks listed on the following pages, and this is a better assortment than most persons not familiar with the varieties would be able to select.

Each color is packed and labeled separately, and each is a variety of the Giant Orchid-Flowered Spencer type, with long stems, each bearing three or four splendid flowers.

This package contains one packet of each of the following colors: Pink, White, Salmon, Scarlet, Lavender, Purple, Blue, Pink and White, Striped, Cream, Yellow, and Maroon.

Price, \$1.00, postpaid.

This will be an excellent assortment to enter in the Sweet Pea Show which will be held in our store rooms about the middle of July. We intend that it shall be even better than the show which we had last summer. Don't fail to have an entry.

**THE BEST SEEDS IN THE WORLD** cannot produce good crops on barren soil. Use Invicta Fertilizers with Invicta Seeds.



# GIANT SPENCER

## ORCHID FLOWERED

# SWEET PEAS

The Finest Varieties of This  
Magnificent Type.

Of course, everyone will grow Sweet Peas, especially here on the Pacific Coast where we can grow them so much larger, wavier, brighter, and for such a long period as to make all the world envious.

The new Spencer type is so much superior that it has practically superseded the old Grandiflora type. The stems are a foot or more in length, each bearing three to five magnificent flowers, often two and one-half inches across, daintily waved and fluted, and of the most delicate colors and fragrance.

We have taken great care in selecting our list of Sweet Peas, and have chosen only the choicest varieties of the most desirable colors and tints.

### New Extra Early Varieties

#### BURPEE'S EARLY BLUE JACKET

This novelty will certainly become popular with all Sweet Pea lovers who prefer the dark shades. It is a rich, dark navy-blue self; extremely free-flowering and usually produced in fours.....Pkt., 25c

#### BURPEE'S EARLY CANARY BIRD

A splendid, rich, deep cream or primrose-colored self. The flowers are of great size, beautifully waved, and usually borne three or four on a stem.....Pkt., 25c

#### BURPEE'S EARLY CHERRY RIPE

A particularly bright and taking color, and quite new. It is described as a glowing cherry or salmon-cerise self.....Pkt., 25c

#### BURPEE'S EARLY DAINTINESS

This has always been a favorite since first exhibited in 1915. It is a strong grower, with flowers of largest size and usually produced in fours. Pure white edged with rose, similar to summer-flowering Dainty.....Pkt., 25c

#### BURPEE'S EARLY GIPSEY MAID

Color light, bright, rose-pink, suffused salmon. The deep lemon keel tends to soften and lighten up the flower. Of great size, usually borne in fours.....Pkt., 25c

#### BURPEE'S EARLY GLORIOUS

This magnificent novelty may be briefly described as being an early-flowering Royal Purple, the color being identical to the popular summer flowering variety of that name. The color is a charming shade of warm, rosy-purple, and the flowers are of great size and produced in threes and fours on a very long stem.....Pkt., 25c

#### BURPEE'S EARLY LUSTER

A most distinct and pleasing shade of deep rose-pink with a lustrous, coppery sheen overlaying or suffusing the standard. Flowers are of great size and are produced in fours. A magnificent variety for bunching.....Pkt., 25c

#### BURPEE'S EARLY ORANGE BEAUTY

Similar in color to Helen Lewis, a glowing orange-scarlet with softer colored wings. Extremely free and early blooming. Valuable alike for culture under glass or in the open, as it withstands the sun and weather well.....Pkt., 25c

#### BURPEE'S EARLY SPLENDOR

A magnificent new deep rose self. The rich rose-crimson color is accentuated by the distinct white blotch at the base of standard and wings. The flowers are of great size, usually borne in fours on very strong stems.....Pkt., 25c

## OUR ANNUAL SWEET PEA AND ROSE SHOW

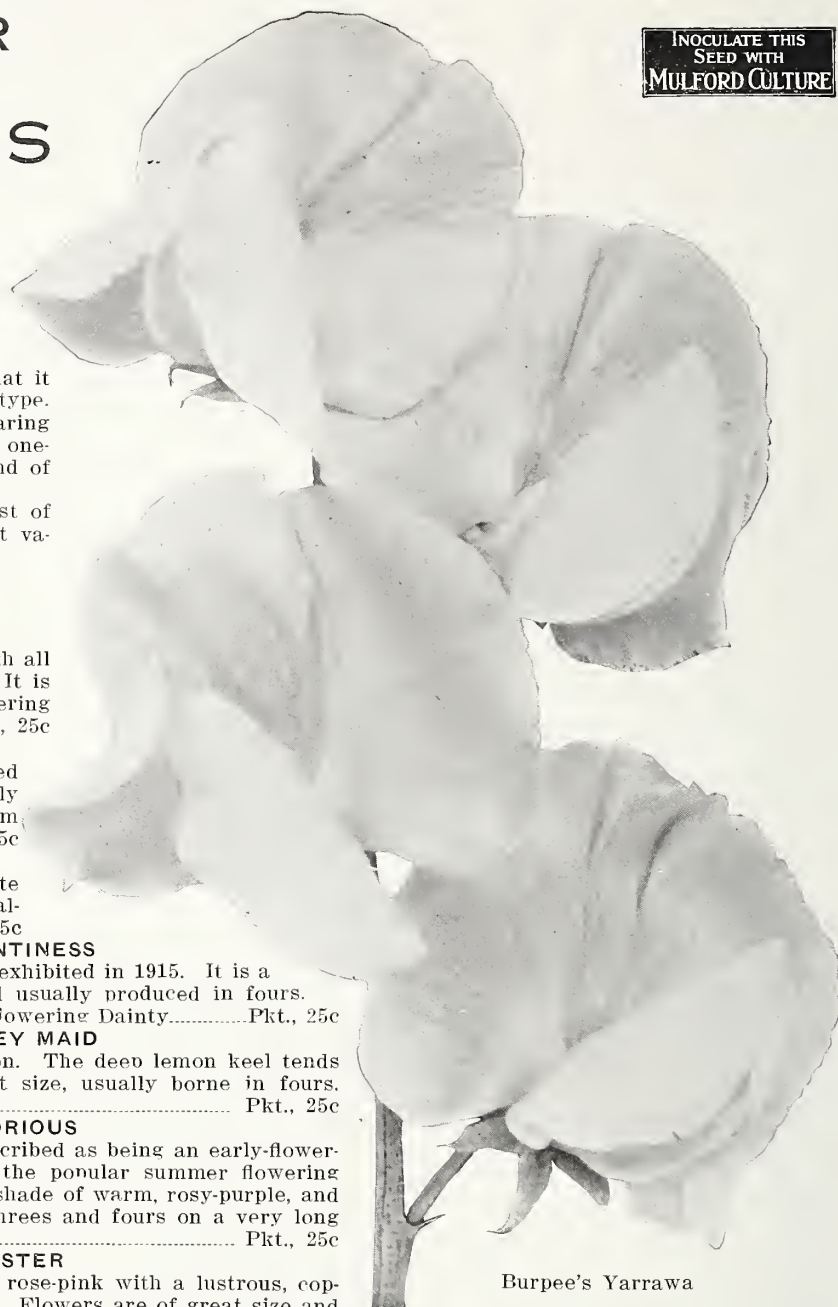
### A Treat in Store for Lovers of Flowers

ONE OF THE GREATEST PLEASURES that came to us during the past year was the hearty response to the Sweet Pea Show held at our Madison Street establishment in July last. We had anticipated that there would be a lively interest in an exhibition of choice Sweet Peas, but little dreamed that there would be so many exhibits, or from such a wide area. Sweet Pea enthusiasts claim that it surpassed anything seen in this part of the country since the A. Y. P. Exposition.

Encouraged by last year's success, we are making arrangements for a much larger affair for this season. We will hold a Sweet Pea and Rose Show, combined, at our spacious new premises at Westlake Avenue and Harrison Street in July, the exact date to be determined by the season. The show will be open to all comers, without charge for either entry or admission. The seed may be procured from any place that you choose. A generous list of trophies that will be worth trying for will be donated by ourselves and other enthusiasts.

All who are interested in this exhibit should get in communication with us in sufficient time so that we may furnish full particulars. It will be our aim to make it very simple and easy to enter,

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Burpee's Yarrowa

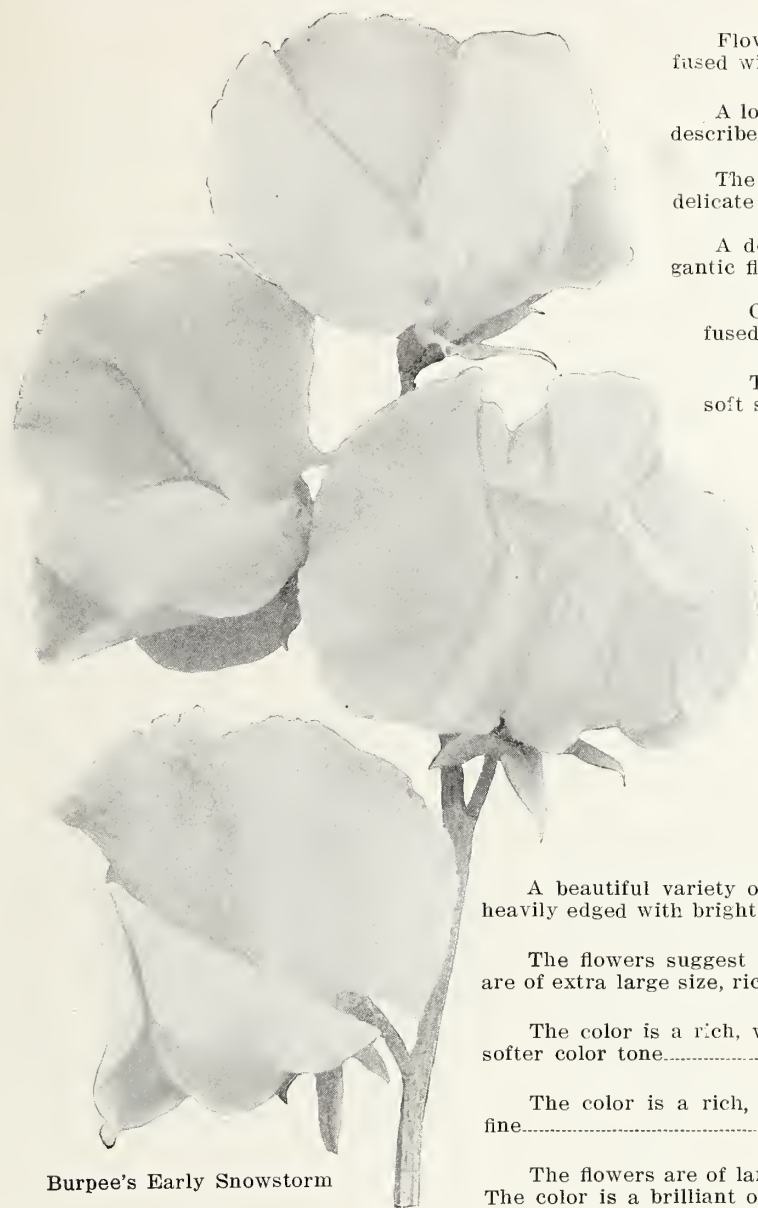
#### BURPEE'S YARROWA

Extra early. The flowers average two and one-half inches in diameter, and many are duplex or double. The color is a bright rose-pink with a clear, creamy base.....Pkt., 25c

#### BURPEE'S IMPROVED EARLY SNOWSTORM

The result of a cross between King White and Yarrowa, it embodies the best qualities of these two varieties and easily eclipses all early-flowering white sweet peas. The flowers are charmingly waved. It is a vigorous grower, and the flowers are borne in fours on very long stems.....Pkt., 25c

## CHOICE SPENCER SWEET PEAS OF RECENT INTRODUCTION



Burpee's Early Snowstorm

**ANNIE BOWNASS**

Flowers of largest size. Color rich, bright pink, heavily suffused with salmon, and amber on white..... Pkt., 15c; oz., \$1.00

**BERYL**

A lovely shade of pink, heavily suffused with salmon. Briefly described as a bright salmon-pink self..... Pkt., 15c; oz., \$1.00

**CHARM**

The flowers are a glistening, pure snow-white, suffused with delicate flesh or blush-pink..... Pkt., 15c; oz., \$1.00

**CHERUB**

A deep rich cream charmingly edged with bright rose. Gigantic flowers borne in fours..... Pkt., 20c; oz., \$1.00

**CIS WRIGHT**

Color blush white. As the flower opens it is heavily suffused with amber and pale pink..... Pkt., 15c; oz., \$1.00

**DON ALVAR**

The flowers are of largest size. The color is a delightful soft silvery-blue or lavender..... Pkt., 15c; oz., \$1.00

**EDWARD COWDY**

This is a truly magnificent variety. The color is a bright fiery orange-scarlet self. The flowers are of large size, beautifully placed and freely produced in fours on stout stems..... Pkt., 15c; oz., \$1.00

**FIERY CROSS**

The standard is a scorching fire-red or rich orange-scarlet, which scintillates and glitters in the bright sunlight with a glowing, fire-like sheen that radiates over the entire flower..... Pkt., 15c; oz., 50c

**HERCULES**

A magnificent soft rose-pink self. The standard often two and one-half inches..... Pkt., 15c; oz., \$1.00

**IRISH BELLE. OR DREAM**

A lovely rich lilac, flushed with pink. Large and of fine form..... Pkt., 15c; oz., \$1.00

**JOHN PORTER**

A lovely shade of soft orange-pink. The flowers are of great size, usually in fours..... Pkt., 15c; oz., \$1.00

**MRS. A. G. GENTLE**

A beautiful variety of much merit. The ground color is white, the standard heavily edged with bright scarlet-pink..... Pkt., 15c; oz., \$1.00

**ORCHID**

The flowers suggest the rich tone found only in the Cattleya orchids. They are of extra large size, rich purple, suffused pink..... Pkt., 15c; oz., \$1.00

**ROYAL PURPLE**

The color is a rich, warm, rosy purple, the younger flowers having a slightly softer color tone..... Pkt., 15c; oz., 50c

**STERLING STENT**

The color is a rich, glowing, deep salmon self, suffused with orange. Very fine..... Pkt., 15c; oz., \$1.00

**THE PRESIDENT**

The flowers are of largest size, carried on strong, stiff stems, usually in fours. The color is a brilliant orange-scarlet..... Pkt., 15c; oz., \$1.00

## STANDARD VARIETIES OF SPENCER SWEET PEAS

<b>America</b>	<b>King White</b>
Ivory white distinctly striped with crimson.....Pkt., 10c; oz., 35c	Pure white. Very large and wavy.....Pkt., 10c; oz., 50c
<b>Asta Ohn</b>	<b>Margaret Atlee</b>
Charming soft lavender suffused with mauve.....Pkt., 10c; oz., 35c	Pink on cream ground, suffused with salmon.....Pkt., 10c; oz., 50c
<b>Apple Blossom</b>	<b>Mrs. C. W. Breadmore</b>
Standard bright rose; wings primrose.....Pkt., 10c; oz., 35c	Cream with distinct pink picotee edge.....Pkt., 10c; oz., 50c
<b>Countess Spencer</b>	<b>Mrs. Routzahn</b>
Soft rose-pink deepening at outer edges.....Pkt., 10c; oz., 35c	Buff or apricot ground flushed with pink.....Pkt., 10c; oz., 35c
<b>Dobbie's Cream</b>	<b>Nubian</b>
Deep cream color. Large and fine.....Pkt., 10c; oz., 35c	Maroon or deep chocolate; beautifully waved.....Pkt., 10c; oz., 50c
<b>Elfrida Pearson</b>	<b>Mrs. Cuthbertson</b>
A lovely pink tinted salmon-pink.....Pkt., 10c; oz., 50c	Rose-pink with white wings. Very large.....Pkt., 10c; oz., 50c
<b>Ethel Roosevelt</b>	<b>Othello Spencer</b>
A soft primrose splashed with blush-crimson.....Pkt., 10c; oz., 50c	Very dark, deep, rich maroon. Large flowers.....Pkt., 10c; oz., 35c
<b>Florence Nightingale</b>	<b>Primrose Spencer</b>
A soft, rich lavender with pink sheen.....Pkt., 15c; oz., 75c	Clear primrose color. Very large and wavy.....Pkt., 10c; oz., 35c
<b>Floridale Fairy</b>	<b>Senator</b>
Deep, rich cream. Richest of the color.....Pkt., 15c; oz., 75c	Striped chocolate and heliotrope.....Pkt., 10c; oz., 35c
<b>Helen Lewis</b>	<b>Thomas Stevenson</b>
Rich crimson-orange with orange-rose wings.....Pkt., 10c; oz., 50c	Intense flaming orange. Largest size; waved.....Pkt., 10c; oz., 50c
<b>King Edward</b>	<b>Vermillion Brilliant</b>
Rich carmine-scarlet. A splendid variety.....Pkt., 10c; oz., 35c	Wings and standard intense pure scarlet.....Pkt., 10c; oz., 50c
<b>King Alfred</b>	<b>Wedgwood</b>
Soft orange with pink wings. Very large.....Pkt., 15c; oz., 75c	A unique shade of lovely light blue.....Pkt., 10c; oz., 50c



## Burpee's Special Mixture

**SPENCER SWEET PEAS**

This is a choice mixture of all of the good varieties of Spencer Sweet Peas, chosen for those who wish a great variety of colors, tints and shades, but do not care to purchase and plant all of the varieties separately.....Pkt., 10c; oz., 35c; postpaid

**SWEET ROCKET (Hesperis)**

An old-fashioned garden plant growing two to three feet high and bearing spikes of white, lilac and purple, fragrant flowers. Perennial.....Pkt., 10c

**SWEET WILLIAM (Dianthus Barbatus)**

A well known attractive, free-flowering hardy perennial; their rich and varied flowers producing a splendid effect in beds and borders.

Single Varieties and Colors, Mixed.....Pkt., 10c

Double Varieties and Colors, Mixed.....Pkt., 10c

**SUNFLOWER (Helianthus)**

The improved ornamental sunflowers are splendid for backgrounds and screens, and wonderful effects may be produced with them. Hardy annuals, easy to grow.

Double Hybrids.....Pkt., 10c

Double Chrysanthemum Flowered.....Pkt., 10c

**THUNBERGIA (Black-eyed Susan)**

Beautiful, rapid growing, annual climbers, used for hanging baskets and for covering fences, etc. Pretty flowers in buff, white, orange, etc., with dark eyes.....Pkt., 10c

**TRITOMA (Red-hot Poker, Flame Flower, or Torch Lily)**

Large spikes of orange-red flowers, very effective. A perennial, hardy on the Pacific Coast.....Pkt., 10c

**VALERIANA (Garden Heliotrope)**

Rubra, Mixed. Showy, hardy border plants, producing large corymbs of red or white flowers. Two feet high.....Pkt., 10c

**VERBENA**

Verbenas are half hardy perennial trailers, one foot high, flowering the first year, and usually treated as annuals. Plants may be started indoors early in spring, or the seed may be sown outdoors in May and the plants will bloom in August.

Mammoth, White. The largest trusses of finest formed clear white flowers.....Pkt., 10c

Mammoth, Pink Shades. Immense flowers in various shades of pink.....Pkt., 10c

Mammoth, Scarlet. Bright scarlet flowers in trusses of largest size.....Pkt., 10c

Mammoth, Blue Shades. All desirable shades of blue.....Pkt., 10c

Mammoth, Extra Choice Mixed. All colors of the Mammoth type.....Pkt., 10c

**VINCA (Periwinkle)**

Attractive, bushy plants with glossy green foliage, producing an abundance of handsome single flowers. One of the best bedding plants; also used as a pot plant in winter. Tender perennial, blooming the first year.....Pkt., 10c

**VIOLA**

Viola Carnuta, Tufted Pansies. Not so large as Pansies, but they flower the whole season, and their bright colors make them favorites for bedding.....Pkt., 10c

Viola Odorata, Sweet Violets. Large, blue, very fragrant flowers.....Pkt., 10c

**WALLFLOWER (Cheiranthus Cheiri)**

Excellent perennial and annual plants, growing eighteen inches high, bearing in spring long spikes of pleasing flowers in red, brown, orange, yellow, etc.

Blood Red, Early-flowering, annual, single. Blood-red.....Pkt., 10c

Parisian Forcing. Blooms first year. Single. Mixed.....Pkt., 10c

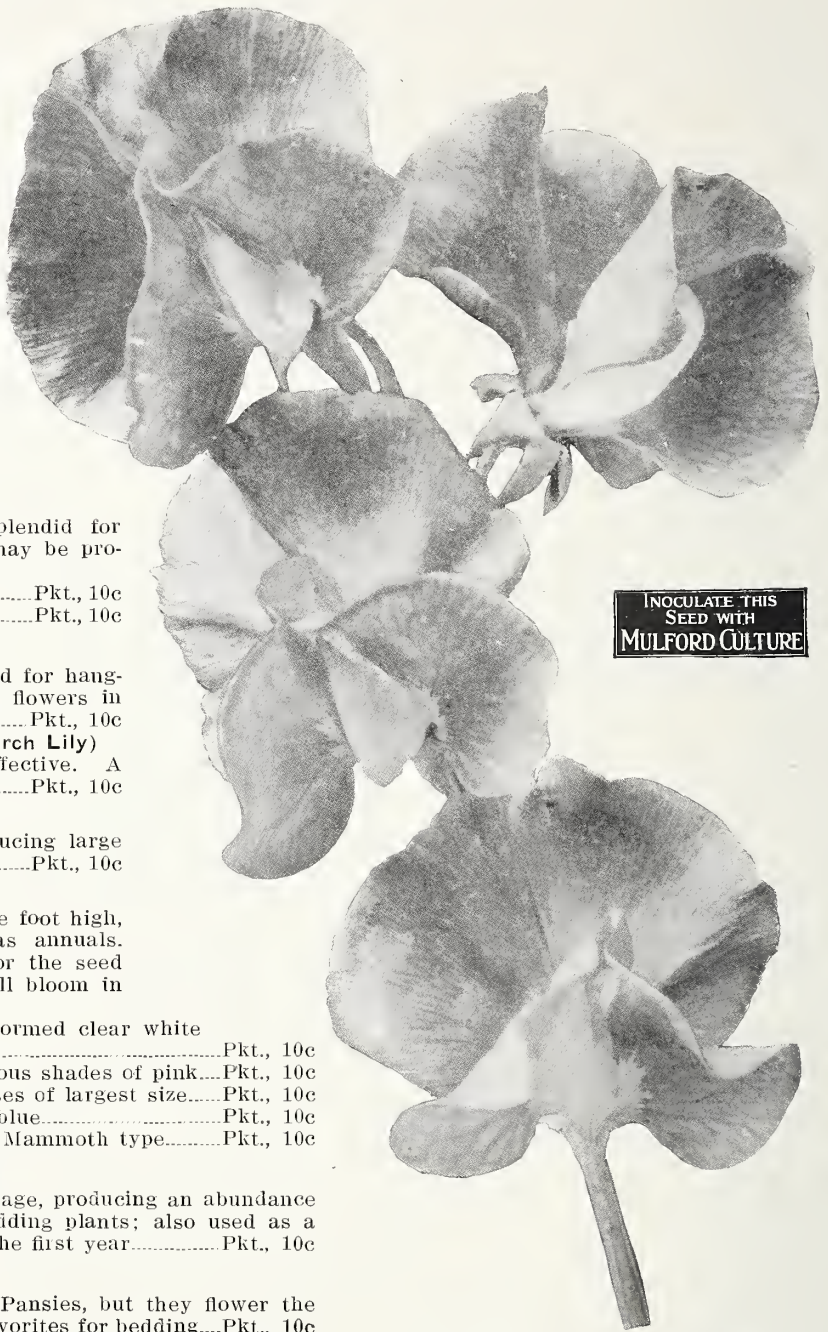
Choice Double Varieties, Mixed. Perennial. Mixed.....Pkt., 10c

**WILD GARDEN FLOWER MIXTURE**

A mixture of hardy flower seeds that may be sown broadcast in corners or waste places, and with little care will produce a wonderful variety of flowers, and some pleasant surprises.....Pkt., 10c

**WISTARIA**

Sinensis. A splendid hardy annual climber with abundant



INOCULATE THIS  
SEED WITH  
MULFORD CULTURE

A Typical Spencer Sweet Pea

foliage and thickly covered with sprays of small, white, fragrant flowers. Seed may be sown outdoors in fall or early spring.....Pkt., 10c

**ZEA**

Japonica Variegata, Rainbow Corn. Highly effective and very interesting as an ornamental foliage plant. It grows about five feet high, with wonderfully variegated leaves.....Pkt., 10c

**ZINNIA**

One of the most brilliant and showy annuals, and an old favorite. They begin blooming early in summer and continue until killed by frost.

Dwarf, Double Varieties, Finest Mixed. All colors.....Pkt., 10c

Large Flowered, Double Varieties, Mixed Colors.....Pkt., 10c

Special Trial Ground Mixture. Choice varieties.....Pkt., 10c

IF YOU ARE NOT ENTIRELY SATISFIED with your crops; if you are not producing better flowers and vegetables than your neighbors, use Invicta Fertilizers. We especially recommend Sheep Guano. It is dried and pulverized, in convenient form to handle, is not offensive in any way, and is the best, cheapest, and most practical fertilizer to be had at this time. Use it on your flower garden, vegetable garden, and lawn. You will find it a good investment.



## FLOWERING PLANTS

We can furnish the following plants during the periods named. Plants should be shipped by Express when possible, for it is difficult to pack them so that they will reach destination in good condition when shipped by Parcel Post. Prices do not include transportation charges.



Mastodon Pansies

<b>Asters, Annual.</b> April to July.....	Doz. 35c
<b>Asters, Perennial.</b> February to July.....	Each, 25c
<b>Bleeding Heart.</b> Perennial. March to July.....	Each, 25c
<b>Canterbury Bells (Campanula).</b> Perennial. February to July.....	Each, 25c
<b>Carnations, Marguerite.</b> In variety. February to July.....	Each, 25c
<b>Coreopsis.</b> Perennial. February to July.....	Each, 25c
<b>Delphiniums (Larkspur).</b> Perennial. In variety. Feb. to July.....	Each, 35c
<b>Digitalis (Foxglove).</b> Perennial. February to July.....	Doz. 25c
<b>Forget-Me-Not (Myosotis).</b> Perennial. February to July.....	Doz. 35c
<b>Fuchsias.</b> Tender perennials. April to July.....	Each, 50c
<b>Gaillardia.</b> Perennial. February to July.....	Each, 25c
<b>Geraniums.</b> Grandiflorum. March to July.....	Each, 25c
<b>Gypsophila (Baby's Breath).</b> Perennial. February to July.....	Each, 35c
<b>Heliotrope.</b> Tender perennial. April to July.....	Each, 35c
<b>Iris Kaempferi (Japanese Iris).</b> February to July.....	Each, 35c
<b>Iris.</b> In variety. February to July.....	Each, 35c
<b>Lavender.</b> Perennial. April to July.....	Each, 25c
<b>Lily of the Valley (Convallaria).</b> February to July.....	Doz., \$1.50
<b>Pansies, Mastodon.</b> All colors. February to June.....	Doz., 60c
<b>Pelargoniums, Lady Washington Geraniums.</b> April to July.....	Each, 75c
<b>Pentstemon.</b> Perennial. April to July.....	Doz. 50c
<b>Phlox.</b> Perennial. February to July.....	Each, 35c
<b>Pinks, Hardy Garden.</b> February to July.....	Each, 20c
<b>Primrose, Japanese.</b> April to July.....	Each, 25c
<b>Salvia, Scarlet.</b> April to July.....	Each, 25c
<b>Snapdragon (Antirrhinum).</b> March to July.....	Doz., 35c
<b>Stocks, Ten-Weeks.</b> April to July.....	Doz., 35c
<b>Sweet Alyssum.</b> Annual. April to July.....	Doz., 25c
<b>Alyssum Saxatile.</b> Perennial. April to July.....	Each, 25c
<b>Sweet William.</b> Perennial. April to July.....	Doz., 35c
<b>Tritoma (Red-hot Poker).</b> February to July.....	Each, 35c
<b>Vinca (Periwinkle).</b> February to July.....	Each, 15c
<b>Violas (Tufted Pansies).</b> February to July.....	Doz., 50c
<b>Violets, Sweet.</b> February to July.....	Doz., \$1.50
<b>Wallflower.</b> February to June.....	Doz., 35c

## GLADIOLUS

The Pacific Northwest produces the most splendid blooms of Gladiolus to be found anywhere, and they are becoming more popular each year. There are few things to equal the effects produced by these fine plants. They are in bloom during the whole season from July until late fall, and the colors are exquisite. They are very easy to grow. Our bulbs are of the finest quality procurable, and our list of varieties is of the choicest.

**America.** Very light pink, beautifully tinted with lavender. Flower spike of largest size.....Each, 10c; doz., 75c  
**Baron Hulot.** Dark velvety purple. Free flowering, and the best of the color.....Each, 10c; doz., \$1.25  
**Brenchleyensis.** The most effective for massing. Very rich, brilliant, dark scarlet.....Each, 10c; doz., 75c  
**Crackerjack.** Dark, rich, velvety red; throat spotted yellow and maroon.....Each, 10c; doz., \$1.25  
**Chicago White.** One of the smaller varieties. Pure white with a slight pencil mark of violet in the center of each lower petal.....Each, 10c; doz., \$1.00  
**Kunderdi Glory. (Ruffled.)** A very striking variety with fluted or ruffled petals. Flowers very large, delicate cream pink with a crimson stripe on each lower petal.....Each, 10c; doz., \$1.25  
**Mrs. Francis King.** A most effective variety for decorations. Spikes extra long; flowers brilliant pink blazed with vermilion.....Each, 10c; doz., 75c

**Mrs. Frank Pendleton.** Bright rose-pink, shading to a deeper pink at center of petals. Very large.....Each, 15c; doz., \$1.25  
**Niagara.** Delicate creamy yellow shaded or splashed with rosy carmine in the throat.....Each, 15c; doz., \$1.25  
**Panama.** A grand new seedling of America, which it resembles, but is a deeper pink. The flowers are very large and the spike is extra long.....Each, 15c; doz., \$1.25  
**Princepine.** Bright red with pure white blotches on the lower petals.....Each, 10c; doz., \$1.00  
**Sulphur Queen.** A long spike of clear sulphur-yellow flowers.....Each, 10c; doz., \$1.25  
**Willie Wigman.** Large flowers; creamy white with red throat.....Each, 10c; doz., \$1.25  
**Mixed Gladiolus.** A splendid mixture of many of the finest varieties.....Dozen, 50c; 100, \$3.50

## PAEONIES

Paeonies are hardy and practically immune from pests and disease. Once planted they are established for all time, and require very little attention. A liberal dressing of fertilizer each fall, and a good spading of the soil, is all that is necessary. If planted in the fall, they will bloom the following June. Set the plants with the tops two or three inches below the surface of the soil, and pack earth tightly around the roots. The clumps should be set about three feet apart.

**Festiva Maxima.** Very popular, of rare beauty and size, and one of the earliest. Perfectly double, pure white flaked with a small crimson spot at the center.....Each, 75c

**Couronne D'Or.** A magnificent white Paeony, of large size, reflecting yellow; center petals bordered carmine. A late blooming flower of great beauty. Very fragrant.....Each, 75c

**Fragrans.** Deep rose. A late and prolific bloomer. Tall growing. Very fragrant.....Each, 75c

**Louis Van Houtte.** Semi-rose type. Late mid-season. Very fine, shapely bloom; medium size. Color bright violaceous red of dazzling effect.....Each, 75c  
**Officinalis Rubra.** Flowers bright scarlet-crimson, double and globular. Very early.....Each, 75c  
**Officinalis Alba.** Early, large and handsome. Opens light pink, fading to white as flowers mature.....Each, 75c  
**Officinalis Rosea.** A gorgeous light pink. Blooms by Decoration Day in the Northwest. Very hardy.....Each, 75c

# BUTTLE'S SPECIAL DAHLIAS

## New and Rare Varieties

These splendid Dahlias were grown by Mr. Richard M. Buttle, President of the National Dahlia Society, and are procurable only through us or from Mr. Buttle. All who visited our Dahlia Show last fall will remember these grand flowers.

### BUTTLE'S HAWAIIANS

Price, \$1.50 each; \$15.00 per dozen, postpaid.

Aala. Paeony Dahlia. Dark maroon.  
 Alakai. Paeony. Rich yellow.  
 Aloha-oe. Paeony. Long, stout stems. Buttercup yellow.  
 Awini. Paeony. Cream yellow.  
 Bird of Paradise. Star Paeony. Canary yellow.  
 Golden Sunset. Paeony. Golden yellow.  
 Haiku. Decorative. Cardinal clouded white.  
 Halemaumau. Decorative. Dark red.  
 Hanalai. Paeony. Medium red.  
 Hawaii. Hybrid Cactus. Orange with red stripes. Extra large bloom.  
 Hawaiian Prince. Art. Autumn bronze with white collar. Long stems.  
 Hiku. Paeony. Long, stout stems. Tan, copper and white.  
 Hilo. Paeony. Purplish cerise.  
 Hina. Paeony. Deep yellow.  
 Honakaa. Decorative. Light purple.  
 Honolulu. Very long, strong stems. Apricot.  
 Hula-Hula. Paeony. Orange, red reflex. Long stems.  
 Kaala. Paeony. Red and yellow striped green.  
 Kaha. Paeony. Dark cardinal.  
 Kahe Kili. Paeony. Crimson and yellow.  
 Kahuku. Paeony. Golden yellow, red reflex.  
 Kahunas. Paeony. Rich golden copper.  
 Kahuna-Nui. Paeony. Brown and orange. Extra fine.  
 Kailua. Paeony. Extra large bloom. Lemon yellow.  
 Kaimuki. Decorative. Very large. Rich orange.  
 Ka-Lae-o-Ka-Hio. Large blooms on long, strong stems. Copper. Decorative.  
 Kamalo. Paeony. Yellow.  
 Kamanawa. Paeony. Garnet.  
 Kamehameha. Decorative. Long stems and extra large blooms.  
 Indian red.  
 Kanawai. Paeony. Shaded maroon.  
 Kapiolana. Paeony. Large blooms on long stems. White, cream center, flesh tips.  
 Kawaiola. Paeony. Lavender.  
 Keanapuaa. Decorative. Scarlet.  
 Kekuaipoia. Paeony. Pink and yellow, like VanDyck.  
 Keola. Paeony. Yellow.  
 Kewa. Paeony. Shrimp pink, curled center.  
 Kewalu. Hybrid Cactus. Red, pink and white.  
 Kilaeua. Paeony. Long, stout stems. Salmon pink.  
 King Alapainui. Crimson. Strong stems. Decorative.  
 King Kalakaua. Paeony. Copper orange.  
 King of Hawaii. Long stout stems. Decorative. Cream, plum base.  
 King of Kau. Paeony. Cream and yellow.  
 Kohala. Paeony. Dark red.  
 Kokee. Hybrid Cactus. White and carmine.  
 Koloa. Paeony. Red and white mixed.  
 Konia. Paeony. Scarlet. Good stem.  
 Koolaupoko. Hybrid Cactus. Geisha colors, red and yellow.  
 Kuahua. Paeony. Deep pink, VanDyck center.  
 Kulioe. Paeony. Yellow and orange.  
 Kunana. Paeony. Scarlet shaded.  
 Kumomo. Hybrid Cactus. Indian orange.  
 Lahalna. Paeony. Very large bloom. Bright yellow.  
 Liholiho. Decorative. Light yellow.



Lihue. Paeony. Stout stems. Sulphur yellow.  
 Luana. Paeony. Rose pink.  
 Hamala-Hoa. Decorative. Extra large. Copper.  
 Manoa. Decorative. Crimson.  
 Mauna Kea. Decorative. Large. Good stems. Deep lavender.  
 Milu. Paeony. Latona color.  
 Miru. Paeony. Peach and carmine.  
 Mohihi. Decorative. Cardinal.  
 Mokupoai. Paeony. Dark VanDyck pink.  
 Molokai. Paeony. Lavender.  
 Moquaweweo. Hybrid Cactus. Maroon and wine.  
 Naeole. Paeony. Shaded pink and yellow.  
 Niuhi, King of the Sharks. Paeony. Carmine and white.  
 Onomea. Paeony. Cream with yellow base.  
 Pahala. Art. Shaggy crimson.  
 Pali-Hulaana. Paeony. Light satiny yellow.  
 Pau. Paeony. Rose pink and silver.  
 Peokala. Paeony. Orange.  
 Princess Kalaniana'ole. Paeony. White.  
 Pukoo. Paeony. Tan and raspberry.  
 Puna. Decorative. Long stems and large flowers. Copper orange.  
 Queen Lilioukalani. Decorative. Extra large. Apricot.  
 Waiatae. Paeony. Lilac and yellow.  
 Waikiki. Paeony. Long, strong stems. White with black stem.  
 Wailuku. Paeony. Golden yellow.  
 Waimea. Paeony. Mauve.  
 Wainihi. Paeony. Flesh, cream and yellow.

### BUTTLE'S HOLLAND IMPORTS

Price, \$1.50 each; \$15.00 per dozen, postpaid.

Aurore. Paeony. Sunset glow. Long, stiff stems.  
 Attraction. Hybrid Cactus. Large flowers and good stems.  
 Lilac.  
 California. Paeony. Long stems, immense flowers. Yellow.  
 Cardinal. Decorative. Large flowers on long stems. Plum.  
 Dream. Decorative. Long, stout stems. Amber.  
 Eveque. Decorative. Good stems and large flowers. Maroon.  
 Garibaldi. Hybrid Cactus. Strong stems. Cardinal.  
 Jhr. Borcel. Decorative. Autumn tints.  
 King of Autumn. Decorative. Autumn tints.  
 Latona. Paeony. Large blooms on long stems. Peach.

Mrs. J. C. Vaughan. Hybrid Cactus. Yellow.  
 Mrs. Warmaar. Hybrid Cactus. Very large. Strong stems. White.  
 Paul Grampel. Decorative. Cardinal.  
 Princess Mary. Paeony. Splendid. Good stems. Pink rose.  
 Raden Kartini. Hybrid Cactus. Very large. Salmon pink.  
 Rose Gem. Decorative. Long, strong stems. Light pink.  
 Salvator. Paeony. Good stems. Rose pink.  
 Sterna. Hybrid Cactus. Fine flowers on strong stems. Cream white.  
 Yellow King. Hybrid Cactus. Very large. Yellow.

The National Dahlia Society will hold their annual Dahlia Show in our Westlake Ave. store rooms in September. This show is expected to eclipse the show of last fall, which many will remember. Particulars will be furnished later.



**BUTTLE'S WORLD'S WAR GROUP DAHLIAS**

Price, \$1.50 each; \$15.00 per dozen, postpaid.

Argonne. Decorative. Red, pink and white.  
 Belgian King. Paeony. Strong stems. Yellow and white.  
 Chateau Thierry. Paeony. Lemon yellow.  
 Genl. Bell. Paeony. Large blooms, long stems. White.  
 Genl. Diaz. Paeony. Peach.  
 Genl. John Pershing. Strong stems. Maroon with white back.  
 Genl. March. Paeony. Apricot.  
 Genl. Petain. Paeony. Dark garnet.  
 Genl. Sir Douglas Haig. Paeony. Giant. Purplish maroon.

Grand Marshall Foch. Paeony. Bright cardinal, yellow disc.  
 King Albert. Decorative. Large blooms. Buttercup yellow.  
 King George V. Paeony. Large. Good stems. Golden salmon.  
 King of Italy. Paeony. Orange, red reflex.  
 Lord Kitchener. Paeony. Deep yellow.  
 Marshal Joffre. Paeony. Salmon pink.  
 Mikado of Japan. Paeony. Long stems. Carmine and white.  
 President Wilson. Decorative. Golden yellow, white blend.  
 Teddy Roosevelt. Decorative. Dark maroon.

**BUTTLE'S COMPLIMENTARY GROUP DAHLIAS**

Price, \$1.50 each; \$15.00 per dozen, postpaid.

Betty Baisden. Decorative. Shaded pink.  
 Charles B. Wood. Decorative. Cardinal.  
 Col. Richard M. Buttle. Decorative. Long stems. Dark maroon.  
 Cupid Morris D. Kennedy. Paeony. Very dark pink.  
 Kathryn H. Kennedy. Decorative. White with cream center.  
 Miss Adelaide M. Buttle. Paeony. White with cream center.

Mrs. Florence B. Buttle. Paeony. Pink, yellow and white.  
 Norman M. Wardall. Paeony. Rich orange.  
 O. M. Spear. Paeony. Yellow and white blend.  
 Snookums Kennedy. Decorative. Strong stems. Cardinal.  
 Virginia Baisden. Paeony. Pure white.  
 The Elks. Single. Purple and white. Long, black stem.

We can furnish about one hundred and fifty other splendid varieties of Cactus, Show, Decorative, Collarette and Single Dahlias grown by Mr. Buttle, which we are unable to list on account of lack of space. If there is any special variety which you wish, we probably have it; or if you specify type and color desired we will make selections for you.

We can also furnish Buttle's New Unnamed Seedlings. These are all new varieties of merit, produced by Mr. Buttle, but not yet named.

Price, 75c each; \$7.50 per dozen, postpaid

Price, 65c each; \$6.50 per dozen, postpaid

**STANDARD VARIETIES**

CACTUS DAHLIAS	Each
America. Blush white, speckled purple. Very large.....	\$.50
Attraction. Large, rosy lilac, extra stout stems .....	1.25
Bianca. Finest shade of lavender pink. Stout stems.....	.50
Basalisk. Fine orange-scarlet. Large, incurved.....	.50
Cambrian. English novelty. Clear salmon. Incurved.....	.50
Conquest. Immense flowers. Crimson maroon .....	.50
Countess of Lonsdale. Hybrid Cactus. Red, shaded salmon	.35
Country Girl. A pleasing shade of yellow, tips orange....	.35
Crystal. White, shaded silvery pink. Incurved.....	.50
Edith Carter. Bright yellow shaded rosy carmine.....	.75
Empress. Purplish crimson. Massive incurved florets....	.50
Flossie Ridout. Canary yellow. Long, narrow, incurved	.75
F. W. Fellows. Giant orange cactus. Long, narrow petals	.75
Francis White. Pure white. Petals curled and twisted....	.35
Frederick Wendham. Warm fawn pink. Very large. Superb	1.00
Fulgent. Bright scarlet crimson. Long, incurved.....	.75
George L. Stillman. Rich, velvety, light maroon. Immense	1.50
George Waters. Rich salmon-rose, gold in center.....	1.25
Golden Crown. Best exhibition yellow incurved.....	.75
Golden Gate. Rich golden yellow, shaded bronze.....	1.00
Golden Wave. Rich, deep, pure yellow. Large. Incurved	.75
Golden West. Golden yellow. Strong stems. One of the best	.75
Gwendolin Tucker. Silvery pink. Very large, incurved....	.75
Johannesburg. Bright gold with glittering sheen. Immense.	.75
John Riding. English novelty. Enormous. Rich crimson	1.00
Jupiter. Pink and yellow, splashed and streaked crimson	.75
Kalif. Pure scarlet. Probably the largest Cactus.....	1.00
Marguerite Bouchon. Rose with white center and tips....	.75
Melody. Half of petals yellow, balance pure white.....	.75
Miss Stedwick. Pink suffused with yellow in center.....	.75
Model. Waxy yellow, plum blush over tips.....	.50
Mount Shasta. Shell pink with shadings of yellow. Large	1.00
Mrs. Brandt. Salmon buff, yellow center. Very large.....	.75
Mrs. C. Cooper. Cream, outer petals suffused salmon.....	1.00
Mrs. Douglas Fleming. Very large. Pure white. Incurved	.50
Mrs. Seale. Attractive deep crimson tipped pink.....	.50
Mrs. Warnaar. White suffused faint pink. Immense.....	1.00
Nibelungenhort. Old rose suffused golden apricot. Immense	1.00
Olympic. Deep, rich crimson. Of mammoth size.....	1.00
Phenomenal. Pale salmon with yellow base. Large.....	.75
Phoenix. Maroon veined crimson. Large. Strong stems	.50
Pierrot. Deep amber, tipped white. Striking novelty....	.50
Prince of Yellow. Clear light yellow. Large flowers.....	.35
Red Admiral. Rich, fiery scarlet. Long, thin, incurved....	.50
Rev. Arthur Bridges. Yellow, striped red, suffused pink....	.75
Rev. T. W. Jamieson. Bright mauve pink, salmon at base	1.00
Rheinischer Frosheim. Carmine rose, white at base.....	.75
Scorpion. Clear light yellow. Incurved, like Chrysanthemum	.50
Snowstorm. Large, bold, white flower. Fine form, incurved	.75
Starlight. Deep yellow. Good stems. Large. Excellent	.50

	Each
Southern Belle. Rich maroon and crimson. Large.....	.50
The Swan. Pure white. Splendid for garden and cutting	.75
Thuringia. Orange scarlet. Large. Good stems.....	.35
Tokio. Silvery rose suffused carmine. Extra large.....	.75
Tom Lundy. Bright velvety red. Immense size. Fine stems	1.00
W. E. Peters. Crimson scarlet. Long, narrow, incurved	
petals .....	.75
Winnie Brown. Blendings from yellow to salmon and pink	.75
Wm. Marshall. Gigantic blooms. Rich orange with yellow	
center .....	.50
Wodan. Hybrid Cactus. Salmon rose shaded with gold	.50
Wolfgang Von Goethe. Large. Rich apricot. Long stems	.50
Yellow King. Yellow shaded lighter yellow.....	.75

**PAEONY FLOWERED DAHLIAS**

Bertha Von Suttner. Salmon pink shaded yellow. Large	.50
Cream Wodan. Pure white with golden yellow center....	.50
Geisha. Attractive combination of scarlet and gold.....	.50
Geishason. Red and gold. Larger than Geisha.....	.35
Hi. Gill. Yellow with coppery sheen. Large. Long stem	1.25
John Green. Clear yellow changing to fiery scarlet.....	.50
Kakadee. Lemon yellow changing to white at tips. Showy	1.00
Oregon Beauty. A giant in size. Bright, fiery scarlet....	.50
Queen Esther. Beautiful deep red. Enormous size.....	1.00
Van Dyck. Salmon rose shade tinted lavender. Immense	.50

**DECORATIVE DAHLIAS**

Delice. Bright pink suffused with lavender pink.....	.35
Fireburst. Soft red. An immense flower with long stems	.50
Hortulanus Fiat. Delicate shrimp pink, tipped gold.....	.50
Immense. White splashed with deep violet.....	.35
Imperator. Ivory white with edges suffused rose mauve	.50
Jack Rose. Brilliant crimson red .....	.35
Master Paul. Violet rose on a lighter ground.....	.35
Mina Burgle. Deep scarlet, solid center. Large and fine	.50
Purple Manitou. Enormous flowers of rich, deep purple....	.50
R. H. Mahany. A beautiful shade of lavender. Large.....	.35

**SHOW DAHLIAS**

Dreer's White. Large. Pure white. Free blooming.....	.35
Grand Duchess Marie. Rich orange, tipped orange .....	.35
John Thorp. Pink. Full and round .....	.35
Lucy Fawcett. Lemon, spotted lilac. A favorite .....	.35

**POMPON DAHLIAS**

Catharine. Primrose yellow. Very perfect form.....	.35
Daisy. Distinct salmon and amber shade .....	.35
Darkest of All. Very dark maroon. Long stems.....	.35
Grusam Wein. Crushed strawberry .....	.35
Guiding Star. The best white Pompon .....	.35
Lady Blanche. White .....	.35
Lassie. Yellow base; rose tips and edges .....	.35
Little Beeswing. Golden yellow edged cherry red. Small	.35
Phoebe. Bright orange, tipped scarlet .....	.35

One Dozen of the above standard varieties, including some of the best, our selection, \$5.00, postpaid.



**CALLA LILY**

These very showy summer-flowering bulbs should be treated similar to Gladiolas. Bulbs should be taken up in fall and stored during the winter like potatoes.

**Golden Yellow** (*Richardia Elliottiana*). Flowers of a rich, velvety, golden yellow; foliage dark green with creamy white spots .....30c each; \$3.00 per doz.

We have ordered a splendid assortment of Holland Bulbs, direct from Holland, which should arrive about the middle of October. They will be listed in our fall catalog. If you do not receive a copy about October 1st, ask for it.

**MONTBRETIA**

The Montbretias are among the brightest of our summer-flowering bulbs, and should be planted extensively. A dozen bulbs set six inches apart, in a sunny position, will form a large clump, producing a great number of graceful spikes a foot long, each bearing twenty to thirty showy, star-shaped flowers about two inches across.

**Crocsmiaeflora**. Deep golden orange .....Doz., 30c; 100, \$3.00

# **CHOICE FIELD GROWN ROSES OF RECENT INTRODUCTION**

Two Year Old, Budded Stock

**AUGUSTUS HARTMANN**

Brilliant geranium-red flushed with orange. Flowers of large size and beautifully formed .....Each, \$1.00

**AUTUMN TINTS**

Coppery-red shaded with orange and salmon. Very attractive and productive. \$1.00

**BRILLIANT**

Flowers large, full, and produced through the season. Color the most intense scarlet .....\$1.25

**CHEERFUL**

Pure orange flame color, the flame effect overspreading the petals, giving a very pleasing combination. Flowers very large, full, and of fine form .....\$1.00

**CLEVELAND**

Vigorous and mildew proof. Flowers large and of exquisite form. Color deep coppery-yellow at base of petals, which are flushed reddish on old rose .....\$2.00

**COLUMBIA**

A true pink, deepening as the flower expands. Long, stiff stems, beautiful foliage, practically thornless .....\$2.00

**CONSTANCE**

Buds long and pointed, of a rich orange yellow color distinctly streaked and splashed with crimson near base of petals, passing to bright cadmium yellow. Large, full flowers .....\$2.00

**CRIMSON EMBLEM**

A superb new Irish rose of a rich and glorious crimson color heavily shaded maroon. Long stems and fine form .....\$1.25

**FLORENCE FORRESTER**

Clear snow white with a lemon tinge, becoming pure white as the flowers mature. The blooms are even larger than Paul Neyron. Its habit is perfect, and the freedom with which it flowers is marvelous. Very sweetly perfumed .....\$1.00

**GOEFFREY HENSLOW**

A delightful orange-crimson of great brilliancy. The blooms are freely produced and are large, full, and of perfect imbricated, globular form. Growth vigorous and erect—\$1.50

**GORGEOUS**

Flowers large, full, exquisitely formed, and produced in endless profusion. Deep orange yellow heavily veined with reddish copper. The most gorgeous coloring yet introduced .....\$1.50

**GOLDEN EMBLEM**

A wonderful coloring, yellow cadmium toning to sunflower-yellow. Surpasses Marechal Neil in shape and formation..\$2.50

**HOOSIER BEAUTY**

Dark crimson shaded with maroon and veined with black. Beautifully formed pointed buds and large double flowers. \$1.00

**CLIMBING HOOSIER BEAUTY**

A new climbing red rose, like Hoosier Beauty, the finest of all the late red roses. A very vigorous climber .....\$2.00

**H. V. MACHIN**

A dazzling rose of gigantic size. Its intensely black grained scarlet crimson blooms are unique .....\$1.00

**KILLARNEY BRILLIANT**

The best of the Killarney type. The color is a very brilliant pink, varying somewhat in shade according to the weather .....\$1.00

**LILLIAN MOORE**

Deep pure Indian yellow with a slightly deeper center. Long buds. Free blooming. Awarded \$1,000 trophy at the Panama-Pacific Exposition .....\$2.50

**LOS ANGELES**

The growth is very vigorous, and it produces a continuous succession of long-stemmed flowers of a luminous flame-pink toned with coral and shaded with translucent gold at base of petals .....\$1.50

**LUDWIG MOLLER**

This is a wonderful yellow Druschki, having all the good qualities of Frau Karl Druschki. It is a vigorous grower, free bloomer, and has deep golden-yellow flowers .....\$1.00

**MADAME COLETTE MARTINET**

Vigorous growth; reddish green foliage; long, golden yellow bud; medium sized globular flower, not too full; color old gold shaded orange yellow. Does not fade .....\$2.00

**MRS. AMBROSE RICARDO**

Deep honey-yellow overlaid brighter yellow. Of great size and substance, largest of the yellow roses .....\$1.00

**MRS. WEMYSS QUINN**

Intense lemon-chrome flushed orange, becoming deep canary yellow when fully opened. Very free blooming and deliciously fragrant. A splendid rose .....\$1.00

**NATIONAL EMBLEM**

Dark crimson of perfect shape. As a bedding, massing and cutting rose it is unique. Buds long and pointed, opening to large, full, handsome flowers of great beauty .....\$1.50

**CLIMBING SUNBURST**

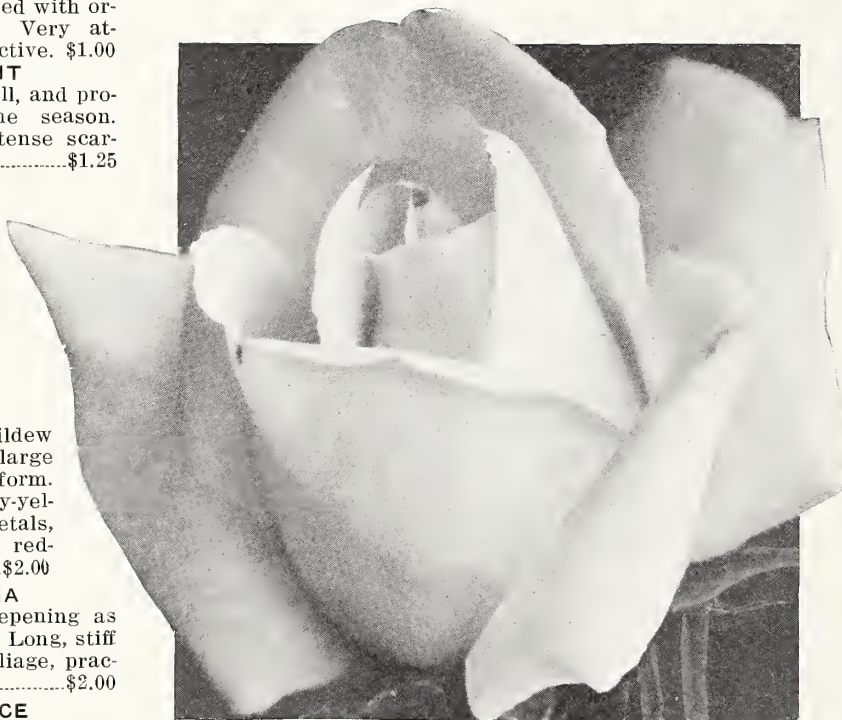
The grandest of all yellow climbing roses. A counterpart of Sunburst except that it is a vigorous climber .....\$1.00

**TIPPERARY**

Clear yellow of "Melody" tone. Pointed buds opening to a full rosette. Long, stiff stems. An Irish seedling of Mrs. Aaron Ward .....75c

**TIP TOP, "BABY DOLL"**

This delightful little "Sweetheart" rose is a wonder. The color is golden yellow tipped with clear, bright cerise. The foliage is long, sharply pointed and glossy green .....75c



Mrs. Wemyss Quinn



## MRS. FRANKLIN DENNISON

Very large, full, well formed flowers. Color porcelain white, veined primrose yellow, deepening to ocre at the base of petals. Immense flowers produced in great profusion.....\$1.25

## ROSES

A Choice Collection of Standard Varieties  
Field Grown, Two Year Old Stock

Alexander Hill Gray. Fine, large, lemon yellow Tea Rose..	.75
Arthur R. Goodwin. Coppery orange. Medium size; full..	.75
Austrian Copper. Single Flowers. Bright reddish copper	.75
Betty. Beautiful coppery rose overspread with yellow....	.50
Cecile Brunner. The popular Baby Pink or "Sweetheart"	.50
Chateau Des Clos Vougeat. Velvety maroon, nearly black	1.00
Charles Dingee. Rose shading into creamy white. Fine	.50
Dorothy Page Roberts. Coppery pink suffused with apricot	.50
Duchess of Wellington. Coppery yellow; full and fragrant	.75
Edith Part. Rich red suffused salmon and coppery yellow	.75
Franz Deegan. Deep orange yellow merging white.....	.75
Edward Mawley. Deep, rich, velvety crimson. Fine form	.50
Geo. Elger (Yellow Cecile Brunner). Clear yellow. Polyantha.	.75
General McArthur. Dazzling crimson scarlet. Splendid....	.50
Geo. C. Waud. Orange vermillion. Large, full, perfect form	.75
George Dickson. Velvety blackish crimson. Fragrant....	.50
General Superior Arnold Janssen. Deep glowing carmine	.75
Hadley. Deep velvety crimson. Buds well formed. Fragrant	.75
Harry Kirk. Deep sulphur yellow, lighter at edges.....	.75
Hugh Dickson. Glowing crimson shaded scarlet.....	.50
Irish Elegance. Single. Apricot shaded orange pink.....	.50
Irish Fireflame. Old gold flushed crimson. Single.....	.75
Joseph Hill. Salmon pink shaded with yellow. Long bud	.75
Juliet. Old gold on outside, rosy red on inside of petals	.50
Lady Alice Stanley. Outside coral rose, inside flesh.....	.75
Lady Hillingdon. Deep apricot yellow. Long, pointed bud	.75
Lady Ashtown. Deep rose shading to silvery pink.....	.50
Lady Pirrie. Outside reddish salmon, inside apricot.....	.75
Lady Roberts. Rich apricot, base of petals coppery red....	.75
Laurent Carle. Brilliant velvety carmine. Long buds....	.75
Lyon. Beautiful shrimp pink, salmon and yellow shadings	.75
Madame Charles Lutaud. Rich chrome yellow with rosy	
scarlet on outer petals. Long, pointed buds. Long stems	1.00
Madame Abel Chatenay. Beautiful rosy carmine.....	.50
Madame Caroline Testout. Bright satiny pink. Large....	.50
Madame Edouard Herriot. Coral red shaded yellow at base	1.00
Madame Edmund Rostand. Clear pink, salmon shadings	1.00
Madame Melaine Soupert. Orange yellow shaded pink....	.75
Madame Ravary. Golden yellow buds, orange yellow nowers	.75
Madame Leon Pain. Salmon pink overlaid with silvery	
white, center yellow and orange. Perfect in form.....	.50
Madame Segond Weber. Rosy salmon or flesh pink.....	.75
Marquis De Sinety. Golden yellow shaded bronze red.....	.75
Margaret Dickson. White with pale flesh center.....	.50
Mary Countess of Ilchester. Warm, crimson carmine.....	.75
Melody. Deep saffron yellow with primrose edges.....	.50
Miss Cynthia Ford. Deep, brilliant rose pink.....	.50
Miss Kate Moulton. Beautiful salmon peach pink.....	.50
Molly S. Crawford. White; large, full and perfectly formed	.50
Mrs. Alfred Tate. Coppery red shaded tawn. Sweetly scented.	.75
Mrs. Aaron Ward. Golden orange shading to lemon at edges.	.75
Mrs. Arthur Robert Waddell. Rich apricot or salmon.....	.50
Mrs. Charles Russell. Rich cerise shaded scarlet at center	1.00
Mrs. David McKee. Creamy yellow. Fine form. Thornless	.75
Mrs. Frank Bray. Coppery fawn with shading of shell pink	1.00
Mrs. Frederick W. Vanderbilt. Orange red shaded apricot	.75
Mrs. Joseph Welche. Rose pink with silvery shadings.....	.75
Naarden. Creamy white with salmon pink center.....	.75
Old Gold. Reddish orange with coppery red shadings....	.75
Ophelia. Salmon flesh shaded rose. Perfect form.....	.75
Perle D'Or. Nankeen yellow with orange center.....	.50
Raynor D'Or. Rich sunflower yellow. Buds long and pointed	.75
Snow Queen (Frau Karl Druschki). Immense flowers;	
double and fragrant. Pure white when open .....	.50
Sunburst. The finest of all yellow roses. Superb cad-	
mium yellow with orange yellow center. Pointed buds	.75
Ulrich Brunner. Rich, glowing crimson. Large and full	.50
William R. Smith. A blending of salmon pink and rose pink	.50
Winnie Davis. Rosy carmine, a veritable sunburst of color	.50

## LOUISE CATHERINE BRESLAU

One of the finest Hybrid Tea roses. A vigorous grower, free blooming, and extra fine foliage. Flowers carried on stout stems. Color coral-red shaded chrome-yellow, opening to a well formed flower of shrimp-pink, shaded coppery orange \$1.00



Winnie Davis

## CLIMBING AND PILLAR ROSES

American Pillar. Large single flowers. Apple-blossom	
pink, with white eye and yellow stamens.....	.50
Alberic Barbier. Yellow flowers, full and double. Beau-	
tiful waxy foliage, free from mildew. Very prolific.....	.75
Climbing Belle Siebrecht. Imperial pink. Large.....	.50
Climbing Madame Caroline Testout. Immense pink flowers	.50
Climbing Papa Gontier. Rich red. Free flowering.....	.50
Climbing Winnie Davis. Flowers like the bush Winnie	
Davis.....	.50
Climbing Cecil Brunner. Small, pretty, pink flowers.....	.50
Dr. W. Van Fleet. Very large, double, pink flowers.....	.50
Gloire De Dijon. A blending of amber. An old favorite	.50
Madame Alfred Carrier. Large, double, creamy white	
flowers.....	.50
Silver Moon. White with yellow stamens. Large. Single	.50
William A. Richardson. Coppery yellow flushed carmine	.50

## THE POPULAR RAMBLER ROSES

Dorothy Perkins. Beautiful, bright shell pink.....	.50
Flower of Fairfield. Brilliant crimson .....	.50
Red Dorothy Perkins. A fine crimson Rambler .....	.50
Tausendschon. A lovely shade of soft pink .....	.50
Yellow Rambler. Like Crimson Rambler except in color	.50

## USE INVICTA SPRAY FOR APHIS

OUR ANNUAL ROSE AND SWEET PEA SHOW will be held in our store rooms on Westlake Ave. in July. If you care for flowers, don't fail to attend. It will be an enjoyable, informal affair; everything free, no charge for entry or admission. Full particulars later.



## CLIMBING AND TRAILING PLANTS

Akebia Quinata. Fine Leaved Akebia. Three years old.....	\$1.00
Aristolochia Sipho. Dutchman's pipe. Three years old.....	1.00
Ampelopsis Quinquefolia. Virginia Creeper .....	.50
Ampelopsis Veitchii. Boston Ivy .....	.50 and .75
Ampelopsis Engelmanni. Similar to Virginia Creeper.....	.75
Ampelopsis Bignonia. Large, showy flowers .....	.75
Ampelopsis Grandiflora. Trumpet Vine .....	.75
Clematis Henryii. Large, creamy white flowers .....	1.00
Clematis Jackmanii. Purple flowers .....	1.00
Clematis. Madame Edward Andre. Bright red.....	1.00
Clematis Montana. Sweet Scented Japanese Clematis .....	1.00
Clematis Paniculata. New Japanese Sweet Scented .....	.75
Enonymus Japonicus Radicans. Climbing Enonymus .....	.75
Honeysuckle. Hall's Japanese, or Halleanium .....	.50 and .75
Ivy. English (Hedra Helix) .....	.35 and .50
Ivy. Maderiense var. Leaves edged white .....	.50 and .75
Jasmine (Jasminum) .....	.75
Wisteria. Sinensis Blue. (Imported, \$2.50 to \$5.00).....	1.00
Wisteria. Sinensis Alba. (Imported, \$2.50 to \$5.00).....	1.00
Wisteria. Multijuga Purple. (Imported, \$2.50 to \$5.00) ..	1.00

## ORNAMENTAL DECIDUOUS SHRUBS

Althea, or Rose of Sharon. Hibiscus Syracus .....	\$1.00 to \$1.50
Almond. Pink, double flowered Almond .....	.75 to 1.50
Almond. White, double flowered Almond .....	.75 to 1.50
Azalea Mollis. Hardy Japanese Azalea .....	1.50 to 2.50
Barberry. Purple leaved .....	.50 to .75
Barberry, Japanese, Dwarf .....	.50 to .75
Calycanthus Floridus. Sweet scented shrub .....	.75
Deutzia Gracilis Rosea. Dwarf; light rose.....	.75 to 1.50
Deutzia. Pride of Rochester. Tall, double, white ....	.75 to 1.50
Dogwood. Red Osier. Cornus Sanguinea .....	.75 to 1.00
Euonymus Europaeus. Strawberry, or Spindle Tree.....	1.00
Forsythia Suspensa. Drooping Golden Bell .....	.75 to 1.00
Forsythia Suspensa Fortunei. Fortune's Golden Ball ..	.75 to 1.00
Forsythia Viridissima. Golden yellow flowers .....	.75 to 1.00
Hydrangea. Avalanche. Pure white flowers .....	1.00
Hydrangea. Bouquet Rose. Rosy pink .....	1.00
Hydrangea Hortensis. Rose colored flowers .....	1.00
Hydrangea Paniculata Grandiflora .....	.75 to 1.00
Tree or Standards .....	1.50 to 2.00
Japan Quince. Cydonia Japonica. Scarlet .....	.75 to 1.00
Kerria. Globe Flower. Corchorus Japonica .....	.75 to 1.00
Lilac. Syringa Persica. Persian Lilac .....	1.00 to 1.50
Lilac. Syringa Persica var. Alba. White.....	1.00 to 1.50
Lilac. Charles X. French, single, purple .....	1.00 to 2.00
Lilac. Marie LeGrave. French, single, white .....	1.00 to 2.00
Lilac. Mad. Lemoine. French double, white .....	1.00 to 1.50
Lilac. President Grevy. Double, pale blue .....	1.00 to 2.00
Lilac. Gen. Foch. Deep purple .....	1.50 to 2.50
Paeony Tree. Paeony Mouton .....	2.00
Sumach. Rhus Typhina Lacinata .....	1.00 to 1.50
Mock Orange. Philadelphus .....	.75 to 1.25



Rhododendron

Snowball. Viburnum Opulus Sterlis .....	\$ .75 to \$1.00
Snowball, Japanese. Viburnum Plicatum .....	1.00 to 2.00
Spirea, Anthony Waterer. Dwarf. Crimson .....	.75 to 1.00
Spirea, Bridal Wreath. Double, pure white .....	.75 to 1.00
Spirea, Thunberg's. Dwarf. Pure white flowers.....	.75 to 1.00
Spirea, Van Houtte. Most popular. White .....	.75 to 1.00
Tamarix, French. Flowers pink, small .....	1.00 to 2.00
Tamarix, Hispida. Flowers bright carmine .....	1.00 to 2.00
Weigela, Candida. Pure white .....	.75 to 1.00
Weigela, Eva Rathke. Flowers deep carmine-red ..	.75 to 1.00
Weigela, Rosea Nana Variegata. Variegated ....	.75 to 1.00

## EVERGREEN SHRUBS

Abelia Grandiflora. Hybrid Abelia. Whitish-pink .....	1.00
Acuba Japonica. Japanese Laurel. Four feet .....	1.25
Barberis Darwini. Darwin's Barberry. Four feet .....	2.00
Barberis Illicifolia. Holly Leaved Barberry. 5 ft.....	.75 to 1.00
Buxus, Sempervirens Suffruticosa. Dwarf Box.....	.75 to 1.00
Buxus, Alba. Six feet. White flowers .....	1.00 to 2.00
Buxus, Andreana. Ten feet. Yellow, purple wings ..	1.00 to 2.00
Buxus, Scotch. Eight feet. Bright yellow .....	.50 to .75
Buxus, Spanish. Eight feet. Yellow flowers .....	1.00 to 2.00
Buddleia Japonica. Five feet. Flowers lilac .....	.75 to 1.00
Burning Bush. Pyracantha. Crimson berries .....	.75 to 1.00
Camellia Japonica. Double, Pink .....	3.00 to 5.50
Camellia Japonica. Double, Red.....	3.00 to 5.50
Camellia Japonica. Double, White.....	3.00 to 5.50
Choisya Ternata. Mexican Orange .....	.75 to 1.50
Cotoneaster Horizontalis. Two feet. Red berries ..	.50 to 1.25
Cotoneaster Michophylla. Two feet. Red berries ..	.50 to 1.25
Cotoneaster, Shining Leaved. Upright .....	.75 to 2.00
Calluna Vulgaris. Scotch Heather. Pink .....	.75 to 1.00
Calluna Vulgaris Alba. Scotch Heather. White....	.75 to 1.00
Laurel, English. White flowers .....	.50 to 3.00
Laurel, Portugal. Flowers fragrant .....	.50 to 3.00
Laurustinus. Viburnum Tinus. White flowers ....	.75 to 1.50
Lonicera Nitida. Upright Evergreen Honeysuckle.....	1.00
Mahonia Aquifolium. Oregon Grape. Native .....	.50 to .75
Mahonia Japonica. Japanese Mahonia .....	1.25 to 2.00
Hypericum Hircinum. Bushy, erect .....	.50 to .75
Hypericum Moserianum. Gold Flower .....	.50 to .75
Hypericum Japonicus. Evergreen Evonymus .....	.75 to 1.50
Hypericum Japonicus Alba Marginatus .....	.75 to 1.50
Hypericum Japonicus Argenteo Variegatus .....	.75 to 1.50
Hypericum Japonica Aureus. Golden leaved.....	.75 to 1.50
Privet, Evergreen. Ligustrum .....	.50 to 1.00
Privet, Aureum Variegated .....	.75 to 1.50
Veronica. Cancerwort .....	.50 to 2.00
Rhododendrons. Fine plants set with flower buds ..	3.00 to 5.50

IF YOU NEED ADVICE in regard to selection of suitable plants, arrangement or culture of your garden, ask us. We have several practical gardeners on our staff who are always willing to assist you. If you require the services of a landscape gardener, we can put you in touch with an expert whom we can highly recommend. Come in and tell us your wants; we can help you.



## ORNAMENTAL DECIDUOUS TREES

Ash. <i>Fraxinus Americana</i> . American White Ash.....	\$1.00 to \$2.50	Maple. Wier's Cut Leaved Maple.....	\$1.50 to \$2.00
Beech. <i>Fagus Purpurea</i> . Purple Leaved Beech.....	2.00 to 2.50	Mountain Ash. <i>Sorbus Aucuparia</i> . European.....	1.00 to 2.00
Birch. <i>Betula Alba</i> . European White Birch.....	1.50 to 2.00	Peach, Flowering. Blood Leaved.....	1.50 to 2.00
Catalpa <i>Bungei</i> . Chinese Catalpa.....	3.00 to 5.00	Peach, Flowering. Double, Red Flowered.....	1.50 to 2.00
Catalpa <i>Speciosa</i> . Hardy Catalpa.....	1.50 to 2.00	Peach, Flowering. Double, Rose, Fringed.....	1.50 to 2.00
Cherry, Japanese Flowering. Double; Rose.....	1.00 to 2.00	Peach, Flowering. Double, White.....	1.50 to 2.00
Cherry, Japanese Flowering. Double; White.....	1.00 to 2.00	Thorn. <i>Crataegus Monogyna</i> Pauli. Double Scarlet.....	1.50 to 2.50
Crab Apple. Bechtel Double Flowering.....	1.50 to 2.00	Thorn. <i>Crataegus Monogyna</i> Alba Plena. White.....	1.50 to 2.50
Chestnut, Horse. Common, White Flowering.....	1.25 to 1.50	Thorn. <i>Crataegus Monogyna</i> . English Hawthorne.....	1.50 to 2.50
Chestnut, Horse. Double Flowering. White.....	1.25 to 1.50	Thorn. <i>Crataegus Monogyna</i> Punicea. Single, Pink.....	1.50 to 2.50
Elm. <i>Ulmus Americana</i> . American White Elm.....	1.00 to 2.00	Tulip Tree. White Wood. Greenish-yellow flowers.....	1.75 to 2.25
Linden. American Linden, or Basswood.....	1.00 to 2.00	Plum, Flowering. <i>Prunus Pissardi</i> . Purple Leaved.....	1.25 to 2.00
Locust, or Acacia. Black, or Yellow Locust.....	1.00 to 2.00	Poplar. Balm of Gilead.....	1.00 to 2.50
Maple. <i>Acer Platanoides</i> . Norway Maple.....	1.50 to 2.00	Poplar. Carolina Poplar.....	1.00 to 2.50
		Poplar. Lombardy Poplar.....	1.00 to 2.50

## EVERGREEN TREES

<i>Araucaria Imbricata</i> . Monkey Puzzle. Prices on application		Juniper. Variegated Irish Yew.....	\$3.00 to \$4.00
Arborvitae. <i>Thuja Occidentalis</i> . American.....	Per foot, \$ .75	Holly. English Holly. Berry bearing trees.....	1.50 to 6.00
Cypress. Italian Cypress.....	Per foot, 1.00	Holly. Variegated English Holly. Berry bearing.....	1.50 to 2.50
Cypress. Lawson Cypress.....	Per foot, 1.00	Pine. Austrian Pine.....	1.50 to 5.00
Cypress. Lawsoniana. <i>Coerulea Glauca</i> .....	Per foot, 1.00	Pine. Montana. Swiss Mountain Pine.....	1.50 to 5.00
Cypress. Erect Green Lawson Cypress.....	Per foot, 1.00	Retinospora Obtusa Aurea. Japan Cypress.....	1.50 to 2.50
Cypress. Yellow Lawson Cypress.....	Per foot, 1.00	Retinospora Plumosa. Japanese Plumed Retinospora.....	1.50 to 2.50
Cypress. Lawsoniana Pendula.....	Per foot, 1.00	Retinospora Plumosa Aurea. Golden tinted.....	1.50 to 3.50
Cypress. Lawsoniana Triumph De Beskoop.....	Per foot, 1.00	Spruce. White Spruce.....	\$2.25 to \$3.00
Cedar. Deodara, Himalayan, or Indian Cedar.....	Per foot, .75	Spruce. Norway Spruce.....	2.50
Cedar. Atlantica. Mt. Atlas Cedar.....	Per foot, .75	Spruce. Colorado, or Koster's Blue Spruce.....	2.25 to 3.00
Cedar. Cedar of Lebanon.....	Per foot, .75	Yew. Dwarf Golden Yew.....	3.00
Cedar. Japanese Cedar. Trees or standards.....	\$2.50 to 3.50		
Juniper. Irish Juniper.....	Per foot, .75		
Juniper. Virginia. Red Cedar.....	Per foot, .75		
Juniper. Japanese Creeping Juniper.....	\$2.50 to 5.00		
Juniper. Savin. <i>Juniperus Sabina</i> .....	1.00 to 2.50		
Juniper. Irish.....	2.00 to 3.50		

## STRAWBERRY PLANTS

New Oregon. An early and continuous bearer, being ready for use in May, and retaining its size and quality throughout the season.....	Doz., 50c; 100, \$3.00
Clark's Seedling. The Hood River Strawberry. A good shipper. Large berries of delicious flavor. Well adapted to dry soils. Our stock is excellent.....	Doz., 30c; 100, \$1.50
Magoon. Large. Fine sub-acid flavor. Bears heavily throughout the season. A splendid and very popular variety.....	Doz., 30c; 100, \$1.50
Marshall. One of the best all-round berries. Very large, fine flavor. A good market and table berry.....	Doz., 30c; 100, \$1.50

## EVERBEARING STRAWBERRIES

Progressive. A new variety of the Everbearing type. Rich red color; firm; and of delicious flavor.....	Doz., 50c; 100, \$3.00
Americus. A good, firm, sweet, Everbearing strawberry.....	Doz., 50c; 100, \$3.00
Superb. Everbearing. Sub-acid flavor. Good for canning.....	Doz., 50c; 100, \$3.00

Write for prices on Strawberry Plants in large quantities.

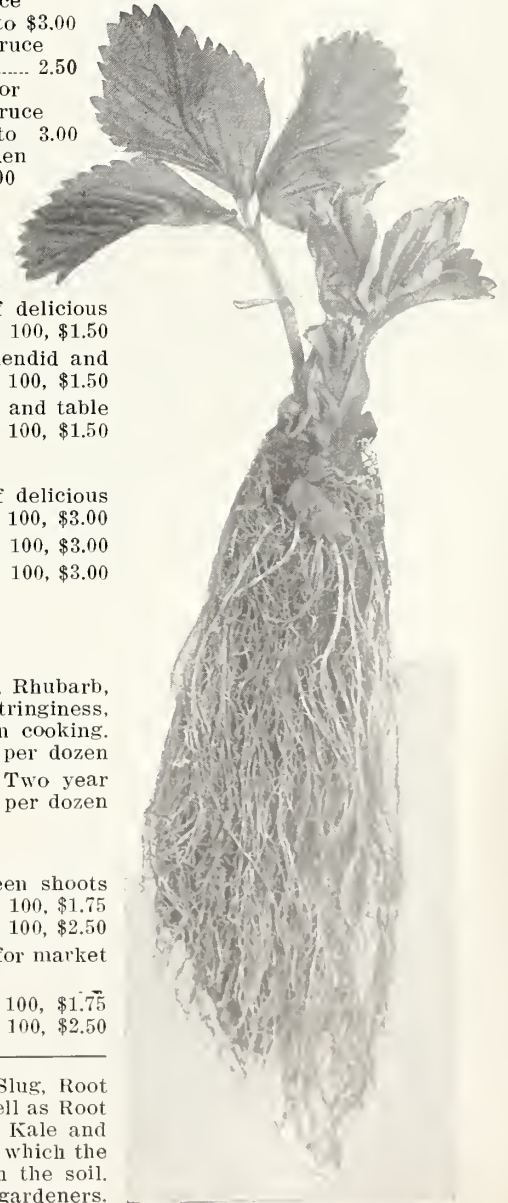
## RHUBARB PLANTS

Riverside Giant. A cross between the California Wine Plant and Mammoth Victoria Rhubarb, and is unequalled for yield and quality. It is tender, crisp, and free from stringiness, with a good color and delicious flavor. The skin is so thin that it disappears in cooking. Vigorous and very productive. Two year old roots.....	25c each; \$1.75 per dozen
Mammoth Victoria. The best known standard variety. Large, tender, and early. Two year old roots.....	25c each; \$1.50 per dozen

## ASPARAGUS PLANTS

Palmetto. Very early and prolific, producing an abundance of very large light green shoots of fine quality.....	Two year old roots, dozen, 35c; 100, \$1.75 Four year old roots, dozen, 50c; 100, \$2.50
Conover's Colossal. One of the largest and most generally grown varieties, popular for market and canning. The shoots are very large, thick, white, and of delicious flavor.....	Two year old roots, dozen, 35c; 100, \$1.75 Four year old roots, dozen, 50c; 100, \$2.50

**MAG-O-TITE** will control Strawberry Crown Borer, Leaf Roller, Slug, Root Worm, Asparagus Beetle and Asparagus Miner, as well as Root Maggots on Radishes, Turnips, Cabbage, Cauliflower, Kale and Onions. It acts as a preventative by keeping away the flies which lay the eggs from which the larvae or maggots are hatched, and it also destroys the larvae which are already in the soil. It is guaranteed to do the work. It is a recent discovery, and is proving a boon to gardeners.





## APPLE TREES

**Robust, Healthy, Two Year Old Trees of Best Varieties**  
Prices, all varieties, \$1.00 each; Extra Choice Stock, \$1.50

### SUMMER VARIETIES

**Early Harvest.** Medium size. Bright straw color. July.  
**Gravenstine.** Large. Dashed red and orange. Aromatic.  
**Red Astrachan.** Large. Deep crimson. Rich acid flavor.  
**Yellow Transparent.** Medium size. Pale yellow. July.

### AUTUMN VARIETIES

**Bismarck.** Large. Golden yellow. September.  
**Duchess of Oldenburg.** Yellow, streaked red. July.  
**Fameuse.** (Snow Apple) Greenish yellow with streaks of deep red on sunny side. Flesh remarkably white.  
**Maiden Blush.** Medium size. Yellow with red on sunny side.  
**Waxen.** Medium size. Pale yellow. Flesh crisp, sharp acid.

### WINTER VARIETIES

**Arkansas Black.** Medium. Round. Dark maroon. Long keeper.  
**Baldwin.** Large. Bright red. Crisp. Fine flavor. November  
**Bailey Sweet.** Large. Greenish yellow with red stripes. Sweet.  
**Delicious.** Splendid for Eastern Washington. Keeps well.  
**Grimes Golden.** Rich golden yellow. Tender, juicy and rich.  
**Jonathan.** Fruit oblong; red. Fine quality.  
**King.** Large and handsome. Striped red and yellow.  
**Rambo.** Medium size. Yellow streaked with red. Sub-acid.  
**Mammoth Black Twig.** (Paragon). Large. Dark red.  
**Northern Spy.** Large. Greenish yellow striped with red.  
**Rhode Island Greening.** Large. Greenish yellow. Fine grained.  
**Rome Beauty.** Large. Yellow shaded with bright red.  
**Spitzenburg.** Large. Yellow striped with bright red.  
**Stayman Winesap.** Yellow striped with red. Firm, crisp, juicy.  
**Tallman Sweet.** A popular old sweet apple. Size medium.  
**Wagner.** Medium. Yellow ground shaded and striped deep red.  
**Winesap.** Medium. Yellow ground streaked with red.  
**Wealthy.** Medium. Whitish yellow shaded with deep red.  
**Winter Banana.** Large. Pale yellow. Fancy market fruit.  
**Yellow Belleflower.** Large; oblong; yellow. Firm, crisp, juicy.

### CRAB APPLES

**Hyslop.** Large. Deep crimson. Tree hardy. Nov. to Jan.  
**Red Siberian.** Yellow with scarlet cheek. Bears young.  
**Transcendent.** Very large. Yellow striped red. Pleasant flavor.  
**Whitney No. 20.** Fruit large, smooth, glossy, striped carmine.  
**Yellow Siberian.** Small. Golden yellow. Good. August.

## CHERRIES

One year old, \$1.00; Two year old, \$1.25  
**Bing.** Sweet. Fruit large, black, very fine. Late. July.

**Black Tartarian.** Sweet. Very large, purplish black, tender, juicy, delicious.

**Early Richmond.** Pie. Medium. Dark red; juicy, rich, acid. June.

**English Morello.** Pie. Fair size. Blackish red. Rich acid. Aug.  
**Lambert.** Sweet. Large. Deep, rich red. Fine quality. Mid-July.

**Late Duke.** Large. Light red. Sub-acid. Late July.



**May Duke.** Large. Rich, dark red. Sub-acid. One of the earliest.

**Royal Ann.** (Napoleon Bigarreau). Large. Yellow, spotted red. Very firm, juicy and sweet. Early.

## PLUMS AND PRUNES

Prices: One year old, \$1.00; Two years old, \$1.25

**Abundance.** Large. Bright cherry red. Freestone. June.  
**Bradshaw.** Reddish purple. Adheres partly to stone. July.  
**Columbia.** Largest size, nearly globular. Freestone. August.  
**Damson.** Small; oval. Bluish purple. Rather tart. August.  
**Green Gage.** Small; round. Flesh pale green. Freestone. July.  
**Hungarian.** Very large. Dark red. Juicy and sweet. August.  
**Italian.** (Fellemborg). Large. Oval. Dark purple. Freestone. August.

**Maynard.** Large, round, firm. Dull red. Rich and sweet. July.  
**Petite.** French. Medium size; egg shaped. Violet purple. August.

**Silver.** Very large. Superior for drying and canning. Sept.

**Sugar.** Very large. Dark purple. Rich in sugar. August.

**Yellow Egg.** Very large. Deep golden color. Rather acid. August.

## PEARS

1 year old, \$1.00; 2 years, \$1.25; 3 years, \$1.50

### SUMMER VARIETIES

**Bartlett.** Large, skin thin, highly flavored. Aug.-Sept.  
**Beurre D'Anjou.** Large, handsome, fine flavor. September.  
**Clapp.** Very large; yellow and dull red; rich. August.  
**Flemish Beauty.** Large, juicy, rich; popular. Sept.-Oct.

### WINTER VARIETIES

**Crocker Bartlett.** New, large, oblong, rich, golden. October.  
**Winter Bartlett.** Large; resembling Bartlett. Late.  
**Winter Nellis.** Medium, fine grained; rich, aromatic. Dec.

## PEACHES

Extra Choice Stock, \$1.00 each

**Crosby.** Rich orange with red blush. Freestone. Medium late.

**Early Alexander.** One of the largest and best extra earlies.

**Early Crawford.** Very large. Yellow with red cheek. August.

**Late Crawford.** Flesh deep yellow, juicy, rich. September.

**Phillip's Cling.** Large. Yellow. Flesh firm. Late August.

THE BEST SPRAYS AND FERTILIZERS ARE LISTED  
ELSEWHERE IN THIS CATALOG.



**APRICOTS**

First Grade Stock, \$1.00 each.

**Blenheim.** Deep orange. Tender, rich and juicy. Last of June.**Moorepark.** Very large. Fine for canning. July to August.**Royal.** Large; sweet, rich, juicy. July.**GRAPES**

Two Year Old Plants, 50c each.

**Concord.** Large, black grape. Round, sweet and pleasant. August.**Moore's Diamond.** Greenish white, juicy; very little pulp.**Moore's Early.** Berry large, resembling Concord, but earlier.**Niagara.** Large, yellowish white, juicy, vinous and sprightly.**Worden.** A seedling of the Concord. Berry round and black.**PHENOMENAL BERRY**

Originated by Luther Burbank. A cross between the red raspberry and dewberry. Called an improved form of Logan berry; larger, more productive and sweeter, but soft and not so good for shipping. Stock very limited. Price, 25c each; \$2.50 dozen.

**LOGANBERRY**

A strong, trailing vine. Fruit large, with shape of the blackberry and color of the raspberry, and flavor a combination of both. Stock is limited. Price, 25c each; \$2.50 dozen.

**NUT TREES****Butternut** (White Walnut). A native of the Eastern States.

It is a beautiful tree, and bears large nuts filled with rich, oily kernels.....Price, \$1.00 to \$1.25

**Chestnut** (American Sweet Chestnut). The nuts are superior to the European and Japanese, although not so large. A valuable shade tree.....3 to 4 ft., \$1.00; 4 to 6 ft., \$1.25**English Walnut.** A large, ornamental tree, producing delicious thin-shelled nuts.....Price, \$1.00 to \$2.50**QUINCE**

Price, \$1.00 each.

**Champion.** Very large and handsome. Cooks tender without hard spots. Flavor delicate. Color greenish yellow.**Orange.** Large. Fine golden yellow flesh of excellent flavor.**RASPBERRIES**

Strong plants, 15c each; \$1.50 per dozen.

**Cumberland.** Black, very large, firm. Best mid-season market.**Cuthbert.** A remarkably strong, hardy, red variety. Large, rich.**Gregg.** Black; best late blackcap. Large and of fine flavor.**St. Regis.** Berries bright crimson, large, rich; good shipper.**BLACKBERRIES**

Price, 25c each; \$2.50 per dozen.

**Evergreen.** Berries large, black, sweet, rich and delicious.**Mammoth.** Enormously productive, very early and very large.**Himalaya Giant.** A strong, rampant, trailing plant; very productive and hardy. Fruit large, handsome and of fine quality.**GOOSEBERRIES**

Price, 25c each; \$2.50 per dozen.

**Oregon Champion.** Large, light green, round, fine flavored.**Josselyn.** Large, smooth, prolific, hardy, and of best quality.**CURRANTS**

Price, 25c each; \$2.50 per dozen.

Good two-year-old plants of the following varieties: Perfection, White Transparent, Black Naples and Fay's Prolific.

**MULBERRY TREES****Russian.** Valued as an ornamental shade tree, and the fruit is quite popular in some sections. Very rapid growing.

Price.....4 to 6 ft., \$1.75

**INVICTA LAWN GRASS MIXTURE**

This mixture has established a reputation for us in this line, and we are very particular that no seed shall enter into it that will blemish that reputation.

It is composed of the finest lawn grasses in correct proportions to produce a fine, velvety, tough turf that will be green all the year. To accomplish this we have chosen early, medium and late varieties, some deep rooted, some shallow, and some creeping rooted to bind the others together and form a dense, thick matted turf. There are no coarse or cheap grasses in this mixture. It contains a small amount of White Clover to make a quick showing and to protect the more delicate grasses until they are firmly established. The grasses will eventually crowd out the clover, leaving a fine grass lawn.

One pound of this seed is sufficient to sow about two hundred and fifty square feet of new lawn. Less seed is required to reseed an old lawn. Old lawns should be loosened up with a rake occasionally, and reseeded.

Price.....1 lb., 55c; 5 lbs. or more, 53c per lb.

Prices are F. O. B. Seattle, transportation

**KENTUCKY BLUE GRASS**

For lawns, some prefer straight Kentucky Blue Grass, and it certainly does produce a splendid lawn if one has the time and patience to devote to it. It takes a long time to become established, but when once established it is permanent. Our seed is extra fancy.

Price.....1 lb., 55c; 5 lbs. or more, 52½c per lb.

**CREEPING BENT**

A valuable grass for lawns, putting greens, etc., on account of its fine texture and creeping roots which form a tough, enduring turf. It is seldom used alone, but is included in the best lawn mixtures.

Price.....1 lb., 55c; 5 lbs. or more, 50c per lb.

**WHITE DUTCH CLOVER**

A dwarf, spreading plant with white blossoms, included in most lawn grass mixtures to make a quick showing and act as a nurse crop for the finer grasses; seldom used alone. Our seed is extra fancy; none better.

Price.....1 lb., 85c; 5 lbs. or more, 80c per lb.

charges additional, and are subject to change.





## GRASS AND CLOVER SEEDS

We Handle Only the Very Best Seeds Obtainable. There Are None Better.

### INVICTA PASTURE MIXTURE

A splendid mixture designed to furnish abundant pasture during practically the entire year. Only the most suitable varieties are used, and none but the finest seed. The best mixture possible for the purpose. Twenty-five pounds per acre. Price.....1 lb., 35c; 10 lbs., \$3.30; 100 lbs., \$30.00

### INVICTA POULTRY PASTURE

A mixture suitable for sowing in poultry runs, furnishing a large amount of green food, so necessary to successful poultry culture, and greatly reducing food bills. This will form a tough sod, not easily destroyed; 30 lbs. per acre. Price.....1 lb., 35c; 10 lbs., \$3.30; 100 lbs., \$30.00

### INVICTA HAY MIXTURE

This mixture is composed of tall growing grasses, maturing at the same time, furnishing an abundance of nutritious hay on ordinary meadow land. It is the best possible mixture for the purpose, and is composed of only the very best seed of the most suitable grasses. Twenty to thirty pounds per acre. Price.....1 lb., 35c; 10 lbs., \$3.30; 100 lbs., \$30.00

### TIMOTHY (*Phleum pratense*)

The best known grass for hay, and the most profitable for market, as it brings highest prices. Does best on moist, loamy soil. Should be cut just when the blossoms fall. Twenty to twenty-five pounds per acre. Our seed is extra fancy, the best that can be procured. Price.....1 lb., 25c; 10 lbs., \$2.30; 100 lbs., \$20.00

### ENGLISH OR PERENNIAL RYE GRASS (*Lolium perenne*)

A very valuable grass in this section for either hay or pasture. It thrives on almost any soil, and is high in food value. Thirty to forty pounds per acre. Price.....1 lb., 25c; 10 lbs., \$2.30; 100 lbs., \$20.00

### ITALIAN RYE GRASS (*Lolium italicum*)

Produces green feed late in the season, and for that reason is valuable in pasture mixtures. Forty pounds per acre. Price.....1 lb., 25c; 10 lbs., \$2.30; 100 lbs., \$20.00

### KENTUCKY BLUE GRASS (*Poa pratensis*)

One of the finest lawn grasses, and also valuable in pasture mixtures; very nutritious and permanent. For pasture, twenty-five pounds per acre if sown alone. Our seed is extra fancy. Price.....1 lb., 55c; 10 lbs., \$5.25; 100 lbs., \$50.00

### ALFALFA (*Medicago sativa*)

Alfalfa is the most valuable hay and forage plant in all localities where it can be grown successfully. Our seed is tested, and is the very best that can be procured. Generally sown at the rate of fifteen to twenty pounds per acre. Price.....1 lb., 55c; 10 lbs., \$5.25; 100 lbs., \$50.00

### TURKESTAN, OR DRY LAND ALFALFA (*Medicago Turkestanica*)

Very similar to *Medicago Sativa*, except that it is more hardy and may be grown more successfully on very dry soils. Price.....1 lb., 55c; 10 lbs., \$5.25; 100 lbs., \$50.00

### RED CLOVER (*Trafolium pratense*)

The most valuable hay and forage crop that can be grown west of the Cascades, being to this section what Alfalfa is to the country east of the mountains. It is a legume, drawing nitrogen from the air, making it one of the greatest fertilizers known. Seed is sown at the rate of eight to twelve pounds per acre. Great care should be used in purchasing seed. Our seed is especially good. Price.....1 lb., 65c; 10 lbs., \$6.40; 100 lbs., \$63.00

### MAMMOTH RED CLOVER (*Trafolium medium*)

Grows very rank and coarse, and is used mostly as a fertilizer, for plowing under. Eight to twelve pounds per acre. Price.....1 lb., 65c; 10 lbs., \$6.40; 100 lbs., \$63.00

### WHITE DUTCH CLOVER (*Trifolium repens*)

A small, creeping, perennial variety, valuable for lawns and pasture. Our seed is the very best procurable. It is seldom used alone. For pasture, five or six pounds per acre is mixed with other seeds. Price.....1 lb., 85c; 10 lbs., \$8.00

### WHITE SWEET CLOVER, OR BOKHARA (*Melilotus alba*)

A biennial, used to some extent for hay and pasture, but most valuable for bee pasture. Twenty to thirty pounds per acre. Price.....1 lb., 55c; 10 lbs., \$5.25; 100 lbs., \$50.00

### ALSIKE CLOVER (*Trifolium hybridum*)

Especially useful on land that is too wet and cold for Red Clover. Makes very good hay. Eight pounds per acre. Price.....1 lb., 65c; 10 lbs., \$6.40; 100 lbs., \$63.00

### CRIMSON CLOVER (*Trifolium incarnatum*)

An annual, useful principally as a cover crop or to plow under. Price.....1 lb., 50c; 10 lbs., \$4.75; 100 lbs., \$45.00

Prices are subject to change. Write for price list.



**RED TOP (*Agrostis vulgaris*)**

This is fancy, re-cleaned seed, free from chaff, and only one-half as much seed is required as of the seed in chaff, commonly sold. It is an excellent grass in pasture mixtures, and is especially valuable in wet places where other grasses will not grow. Ten pounds per acre.....  
Price, 1 lb., 35c; 10 lbs., \$3.30; 100 lbs., \$30.00

**CANADIAN BLUE GRASS (*Poa compressa*)**

A hardy perennial with creeping root-stalks which form a strong turf. It is a splendid lawn and pasture grass, being harder than Kentucky Blue Grass. It differs from Kentucky in flattened, shorter stems and bluer color.....  
Price, 1 lb., 25c; 10 lbs., \$2.00; 100 lbs., \$18.00

**CREEPING BENT**

Valuable for lawns on account of its fine texture and creeping root-stalks which form a tough turf that is not damaged by tramping.....Price, 1 lb., 55c; 10 lbs., \$5.25; 100 lbs., \$50.00

**MEADOW FESCUE (*Festuca pratensis*)**

Included in all the best pasture and hay mixtures. It is very hardy and comes early in spring and again in fall.....  
Price, 1 lb., 55c; 10 lbs., \$5.25; 100 lbs., \$50.00

**RED OR CREEPING FESCUE (*Festuca rubra*)**

Has creeping roots which form a dense and lasting turf. Resists drought and thrives in poor gravelly or sandy soils where less hardy grasses will not grow.....  
Price, 1 lb., 60c; 10 lbs., \$5.75; 100 lbs., \$55.00

**ORCHARD GRASS (*Dactylis glomerata*)**

Valuable in pasture mixtures on account of being about two weeks earlier than other grasses, and continues when other grasses are withered by dry weather. Thirty pounds per acre.....Price, 1 lb., 40c; 10 lbs., \$3.50; 100 lbs., \$33.00

**BROME GRASS (*Bromus inermis*)**

A perennial, resisting drought and cold and valuable for binding soil on embankments. Not recommended for hay or pasture where better grasses can be grown. Forty pounds per acre.....Price, 1 lb., 50c; 10 lbs., \$4.75; 100 lbs., \$45.00

**CRESTED DOG'S TAIL (*Cynosurus cristatus*)**

Used in mixtures for pastures, putting greens and lawns. It stands severe drought and hard usage. Twenty-five pounds per acre.....Price, 1 lb., 55c; 10 lbs., \$5.25; 100 lbs., \$50.00

**TALL MEADOW OAT GRASS (*Avena elatior*)**

A valuable grass in pasture mixtures on account of being very early; it also makes very good hay. It is hardy, deep rooting and stands considerable drought. Seldom used alone.....Price, 1 lb., 50c; 10 lbs., \$4.75; 100 lbs., \$45.00

**SUDAN GRASS (*Andropogon sorghum*)**

A valuable hay and forage crop of recent introduction, especially useful in hot, dry localities, but also grown successfully west of the Cascades. It is an annual, like Sorghum and Millet, and must be seeded each year. Two to four cuttings may be had during the season. If sown in rows and cultivated, two to six pounds of seed is sufficient for an acre; if broadcast fifteen pounds will be required. The seed should not be sown until all danger of frost is past.....  
Price, 1 lb., 25c; 10 lbs., \$2.30; 100 lbs., \$21.00

## FORAGE AND SILAGE CROPS

**THOUSAND HEADED KALE**

One of the most valuable crops on the Pacific Coast, as it supplies green food for poultry, cows and hogs during the winter. In this locality it is left in the ground during the winter, cut, or the lower leaves pulled off as wanted for feeding, and is seldom damaged by freezing. The plants are generally started in seed bed and transplanted like cabbage, three feet apart in rows four feet apart. They may be planted after an early harvested crop is removed. One pound of seed will furnish sufficient plants for an acre.....  
Oz., 10c; ¼ lb., 25c; 1 lb., 75

**MILLET**

Millet is used mostly as a catch crop to take the place of some crop that has failed or to sow after an early harvested crop has been removed. It may be sown in spring after danger of frost is past, or as late as the last of July, and makes a fair quality of hay.

**Golden Millet.** Especially valuable for use on poor soils. It is early maturing and grows about four feet high. The seed is yellow. Twenty-five pounds per acre.....  
1 lb., 20c; 10 lbs. or more, 15c per lb.

**Siberian Millet.** An early, very hardy variety, best for hot, dry localities. Grows about four feet high and produces a great amount of excellent hay. Sow at the rate of about twenty-five pounds per acre.....  
1 lb., 20c; 10 lbs. or more, 15c per lb.

**Japanese Millet.** Makes a rank growth, sometimes six feet high and produces a wonderful amount of hay, forage or silage.....  
1 lb., 20c; 10 lbs. or more, 15c per lb.

**JAPANESE BUCKWHEAT**

The best and most productive variety. The plants are stronger growing and more spreading than the Silver Hull variety, and the grain ripens a little later.....  
1 lb., 15c; 10 lbs. or more, 14c per lb.

**DWARF ESSEX RAPE**

Dwarf Essex Rape furnishes a great amount of forage and pasture during the dry season in summer when other green food is scarce, and is especially valuable for hogs and sheep. It is also a splendid cow food, but is liable to taint the milk. It may be sown any time during the spring and summer, and is useful as a catch crop to be sown after some early crop is harvested. When sown broadcast, about five pounds of seed is required for an acre.....  
1 lb., 20c; 5 lbs. or more, 15c per lb.

**MARROW CABBAGE**

Similar to Thousand Headed Kale, both in growth and usefulness. It grows somewhat larger, but is less hardy and is more liable to freeze out during the winter.....  
Oz., 15c; ¼ lb., 30c; 1 lb., \$1.00

**KAFFIR CORN**

Of little use west of the Cascade Mountains, but a valuable forage plant for the country east of the mountains. Grows four or five feet high, with numerous large leaves greatly relished by cattle and horses.....  
1 lb., 10c; 10 lbs. or more, 9c per lb.

**SUNFLOWER**

A valuable poultry and hog food, when mixed with other grains. Fine leaves are relished by cattle. Very productive, easy to grow, and should be more generally grown in this section.....  
1 lb., 15c; 10 lbs. or more, 15c per lb.

**FLAX**

Sow in spring, late enough to avoid frosts, but early enough to mature before fall. If grown for seed, thirty pounds of seed is sufficient for an acre, if for fiber a larger amount should be sown.....  
1 lb., 15c; 10 lbs. or more, 14c per lb.

**ROOT MAGGOTS ARE A CURSE**, and many have given up trying to grow Thousand Headed Kale and Dwarf Essex Rape, as well as Cabbage, Radishes, Onions, etc., on account of them. They are now a thing of the past; a horrible nightmare as it were. They are simply, easily and cheaply eliminated, abolished and destroyed; and nobody will mourn their passing. There is no longer any excuse for them. **MAG-O-TITE DOES IT.**

For Aphis on Thousand Headed Kale, Dwarf Essex Rape, or any other plant, use Invicta Spray or Black Leaf 40.





## SEED GRAINS

### OATS

**Swedish Select.** The most popular variety in the Northwest. The head is large and spreading, and the grain large, plump and heavy. Unequalled in quality.

.....6c per lb., 100 lbs., \$5.00

**Abundance.** A new Scotch oat, yielding heavy crops. Medium early; has a spreading head, and the grain is white, of medium size and weight.

.....6c per lb.; 100 lbs., \$5.25

**Victory.** A heavy yielding head oat, resistant to lodging. The grain is white with a slight reddish shade.

.....6c per lb.; 100 lbs., \$5.00

**Banner.** A very popular white, head oat. The grain is white and heavier than the average.

.....6c per lb.; 100 lbs., \$4.50

**Black Alaska.** A black oat, used to sow with Vetch or Peas. Sometimes sown in fall, but not so hardy as Gray Winter Oats, and more liable to freeze out.

.....6c per lb., 100 lbs., \$4.75

**Gray Winter Oats.** Especially valuable for fall sowing. The grain is dark gray, large, plump, and yields well. The best for sowing with Vetch or Peas.

.....6c per lb.; 100 lbs., \$4.75

**Hulless Oats.** A new variety, growing like other oats, but the grain shells out like wheat when threshed, making them especially valuable for poultry food and other purposes.

.....1 lb., 25c; 5 lbs. or more, 15c per lb.

### FIELD PEAS

A valuable grain, hay, silage and soiling crop which although quite generally grown in Western Washington, is deserving of even more consideration. The plants make excellent hay and silage, the ground grain is splendid hog and poultry food, and the plant, being a legume, is one of the greatest fertilizers, whether harvested or turned under.

**Yellow Canadian Field Peas.** The most generally grown variety. The seeds are small, round, smooth, and light yellow.

.....7c per lb.; 100 lbs., \$6.50

**Blue Bell Field Peas.** The seed is larger than the Yellow Canadian, and is of a bluish color; similar in other respects.

.....8c per lb.; 100 lbs., \$7.50

### VETCH

One of the most valuable crops grown in the Northwest for hay, silage, pasture, soiling and green manure. Being a legume, like Peas, Clover, and Alfalfa, it draws nitrogen from the air and distributes it in the soil, making it one of the best and most economical fertilizers.

**Oregon Vetch.** Sometimes called Spring vetch, which name is misleading, for it is the variety used exclusively west of the Cascades for either fall or spring sowing.

.....15c per lb.; 100 lbs., \$12.50

**Hairy or Winter Vetch.** This variety is used east of the mountains for fall sowing.

.....35c per lb.; 100 lbs., \$33.00

### WHEAT

**Marquis.** A new, early, red, spring wheat. Does not shatter easily and stands up well. A short, plump, very hard kernel of good quality. Although a spring wheat, it may be sown in fall west of the Cascade Mountains.

.....Write for prices.

**Bluestem.** An old standard white spring wheat, sown in fall west of the Cascades.

.....Write for prices.

**Red Russian.** A red winter wheat grown extensively in Eastern Washington.

.....Write for prices.

### RYE

**ROSEN RYE.** A new variety, procured by us from Michigan. It was developed by the Michigan Agricultural College, where for three years it averaged 41.3 bushels per acre. The straw is vigorous and stools to a remarkable degree. The grain is large, plump, heavy, and of a beautiful color. We have only a limited stock.

.....1 lb., 25c; 5 lbs. or more, 15c per lb.

**Petkuser Rye.** A heavy yielding winter rye. The heads are long, four rowed, and the kernels large.

.....6c per lb., 100 lbs., \$5.50

**Seed Rye.** The old standard variety.

.....6c per lb.; 100 lbs., \$5.00

### BARLEY

**White Hulless.** This barley threshes out like wheat, leaving the large, plump, white kernels free of hulls, making it a valuable stock and poultry food. It is sometimes sown in fall west of the Cascade Mountains, and may be sown as late as July.

.....Write for prices.

**Beardless Barley.** Free from beards, making it much superior to the bearded varieties for hay.

.....Write for prices.

**Wisconsin Pedigree Barley.** The best of the bearded varieties. The heads are exceedingly long and uniformly well filled.

.....Write for prices.

**Seed Barley.** The standard variety most commonly grown until recently.

.....Write for prices.

### CORN

**Improved King Philip.** This is an improved strain of the old King Philip. It is a very early, red, flint variety, and is adapted to the Northwest.

.....15c per lb.; 100 lbs., \$10.50

**Pride of the North.** A favorite variety for this locality.

An early, yellow, dent corn.....15c per lb.; 100 lbs., \$10.50

**Minnesota No. 13.** A new variety of yellow dent corn.

Large and early.....15c per lb.; 100 lbs., \$10.50

**Iowa Gold Mine.** A splendid, medium early, yellow, dent corn, adapted to this locality.

.....15c per lb.; 100 lbs., \$10.50

**Red Cob Ensilage Corn.**.....15c per lb.; 100 lbs., \$10.50

**Early White Dent Fodder Corn.**.....15c per lb.; 100 lbs., \$10.50

**Evergreen Sweet Fodder Corn.**.....15c per lb.; 100 lbs., \$13.50



## ROOT CROPS

### MANGELS, OR STOCK BEETS

Mangels are the most valuable crop that can be grown to supply succulent green feed for stock and poultry. The climate of the Pacific Northwest is especially adapted for their growth, and they produce immense crops.

**KELWAY'S BEST OF ALL.** This is Kelway's special, is very popular in England, and we have no doubt that it will prove very valuable in this country. It is described as very large, in shape between intermediate and tankard, with pale yellow skin, small top, and extremely productive.

Pkt., 15c; ½ lb., 65c; 1 lb., \$1.25  
**KELWAY'S CRIMSON KING.** Very large, well formed roots with small tops and deep red color. Our seed is imported direct from Kelways. Pkt., 15c; ½ lb., 65c; 1 lb., \$1.25

**KELWAY'S MODEL GOLDEN TANKARD.** Kelway's strain of the Golden Tankard type. The tops and neck are small; the roots large, with bottom larger than the top. The color is deep orange below ground and gray above. The best variety for shallow soil. Pkt., 15c; ½ lb., 65c; 1 lb., \$1.25

**Danish Sludstrup.** A new variety, originating in Denmark, and one of the best. It is a large, long, smooth mangel of uniform shape and reddish yellow color.

Pkt., 10c; ½ lb., 50c; 1 lb., 90c  
**Giant Intermediate, or Gate Post.** A large yellow skinned and white fleshed variety of large size and half-long shape

Pkt., 10c; ½ lb., 50c; 1 lb., 90c  
**Long Red Mangel.** A large, long, light red variety, growing well out of the ground, and easily harvested.

Pkt., 10c; ½ lb., 50c; 1 lb., 90c  
**Half Sugar Mangel.** Rich in sugar, combining the food value of the sugar beet with the size of the mangel. It is bronze-green above ground and light gray below, ovoid in shape; growing well out of the ground, and easily harvested

Pkt., 10c; ½ lb., 50c; 1 lb., 90c  
**SUGAR BEET**  
**Vilmorin's Improved Sugar Beet.** One of the richest in sugar content, and very productive. The roots are of medium size, with white flesh. Pkt., 10c; ½ lb., 60c; 1 lb., \$1.00

### RUTA BAGA, OR SWEDE TURNIPS

An excellent crop for stock feeding, treated the same as winter turnips except that they require a longer season for growth. They are larger and richer than turnips. The only objection to them has been their liability to root maggots, but now that Mag-o-tite is available that is no longer a serious matter.

**American Purple Top Improved.** Of very large size, nearly globular, immensely productive, and a good keeper. The flesh is yellow, firm, and rich. Pkt., 10c; ¼ lb., 40c; 1 lb., \$1.25

**Skirving's Purple Top Ruta Baga.** A round or oval variety of large size. The flesh is yellow and of excellent quality. Pkt., 10c; ¼ lb., 40c; 1 lb., \$1.25

**Yellow Swede.** The roots are oblong; dull reddish color above ground but yellow underneath. A splendid keeper. Pkt., 10c; ¼ lb., 40c; 1 lb., \$1.25

**White or Sweet Russian.** An excellent keeper and very desirable either for table or for stock. The roots are very large and nearly globular. The flesh is white, very firm and sweet. Pkt., 10c; ¼ lb., 40c; 1 lb., \$1.25

### STOCK CARROTS

Carrots are very valuable as a crop for stock feeding, and should be more generally grown in this locality for that purpose.

**Oxheart, or Guerande.** This variety grows very large, and is probably the best for stock feeding. The roots are short, very thick, ending abruptly in a small tap root. The flesh is bright orange, fine grained and sweet. Pkt., 10c; ¼ lb., 40c; 1 lb., \$1.00

**Mastodon Stock Carrot.** A very productive, half-long, white carrot of large size. Pkt., 10c; ¼ lb., 40c; 1 lb., \$1.00

**Yellow Giant Stock Carrot.** A very large and productive yellow fleshed stock carrot. An excellent keeper. Pkt., 10c; ¼ lb., 40c; 1 lb., \$1.00

**Large White Belgian.** A very large, half-long, white carrot. Very productive and a good keeper. Pkt., 10c; ¼ lb., 40c; 1 lb., \$1.00

## FERTILIZERS

### LAWN, ROSE AND FRUIT FERTILIZER

To maintain a lawn that you may be proud of; the largest, brightest and best formed flowers; or the most perfect fruit in abundance, it is necessary to use a suitable fertilizer in liberal quantities. This fertilizer is prepared for the purpose of accomplishing those results.

1 lb., 15c; 6 lbs., 40c; 13 lbs., 75c; 25 lbs., \$1.25; 100 lbs., \$4.25

### BONE MEAL FERTILIZER

One of the most valuable fertilizers, and in some cases the most economical form of phosphoric acid and nitrogen. It is slow in action, the plant food is taken up only as fast as required by the plants, and for that reason is splendid for forming lawns, rose beds, etc. It forms an important part of the best mixed fertilizers.

6 lbs., 40c; 13 lbs., 75c; 25 lbs., \$1.25; 100 lbs., \$4.25

### SAKANA BRAND FISH FERTILIZER

A high grade fertilizer consisting of fish scrap dried and finely ground. Very high in nitrogen and phosphoric acid.

100 lbs., \$4.25

### TANKAGE

A slaughter-house by-product, dried and ground. A valuable quick acting fertilizer. 100 lbs., \$4.00

### SUPERPHOSPHATE

An economical form of phosphoric acid. Per sack, 125 lbs., \$1.75

### GYPSUM, OR LAND PLASTER

Not really a fertilizer, as it contains no plant food, but by causing a chemical change in the soil is very beneficial to clover and other legumes. 100 lbs., \$1.00

### GROUND LIME ROCK

For sweetening sour soil. 100 lbs., \$1.00

### H. O. LIME

Hydrated lime for sweetening sour soil. 50 lbs., 85c; 100 lbs., \$1.50

### SWANSDOWN LIME

A very fine grade of hydrated lime for use on lawns. 50 lbs., \$1.00; 100 lbs., \$1.75

### VEGETABLE FERTILIZER

If you have not been entirely satisfied with your garden the past season, use this fertilizer and produce prize vegetables. No soil can produce crops year after year without being supplied with material to work with. This supplies the necessary material in the best form and proportions.

6 lbs., 40c; 13 lbs., 75c; 25 lbs., \$1.25; 100 lbs., \$4.25

### SHEEP GUANO

Steam dried and finely pulverized. Very high in fertilizing values; not offensive to handle. The best of the natural fertilizers for practically all purposes.

25 lbs., \$1.00; 50 lbs., \$1.75; 100 lbs., \$3.00

### BLOOD AND BONE

Dried and ground. A quick acting fertilizer valuable for top dressing when quick results are required. 100 lbs., \$4.00

### NITRATE OF SODA

A very valuable quick acting nitrogenous fertilizer which will produce wonderful results when correctly used. Orchardists and others requiring large quantities will please write for special quantity prices.

Less than sack lots, 8c per lb; per sack, 200 lbs., \$12.00

### SULPHATE OF POTASH

This is the chief source of potash, a very necessary fertilizing element. There is very little available at this time, and the price is extremely high; however, we are fortunate in securing a limited supply which we can furnish at the following prices as long as it lasts.

Less than sack lots, 15c per lb; per sack, 100 lbs., \$12.50

### WIZARD FERTILIZER

A highly concentrated mixed fertilizer. 2 lbs., 40c; 25 lbs., \$2.50; per sack, 125 lbs., \$11.50



# ROOT MAGGOTS HAVE HAD THEIR DAY MAG-O-TITE

## MAKES IT POSSIBLE TO GROW RADISHES : TURNIPS : CABBAGES KALE AND ONIONS

Root Maggots have been the worst pest that the Northwest has ever known. Many have given up growing some crops on account of them; others have persisted in trying, but have met with partial or complete failure year after year. Thousands have written to the Agricultural Colleges for a remedy, and have been answered that after many years of experimenting they were not yet able to suggest any practical cure.

Mag-o-tite is a positive cure for this serious evil. It acts as a preventive by repelling the fly which lays the eggs from which the maggots are hatched; and it will also destroy maggots which are already in the soil. It is not a new experiment. It has been thoroughly tested during the past several years, and has proved conclusively that it will do the work.

It is intended primarily as a remedy for Root Maggots, but has proved very effective on many other insects, among which are Strawberry Crown Borer, Cabbage Worms, Asparagus Miner, Flea Beetles, Cut Worms, and all kinds of Slugs.

It is very inexpensive and easy to apply. Simply scatter a generous quantity of it on the ground before sowing the seed, mixing it into the soil in the rows. One or two applications should be given later, after the plants are up, by scattering it on the ground around the plants, and working it into the soil by cultivation. It will not injure the plants. Try it. If you are not entirely satisfied with the results, tell us and we will refund your money.

Price, 2 lbs., 25c; 4 lbs., 50c; 8 lbs., \$1.00; 25 lbs., \$2.50; 100 lbs., \$8.50, F. O. B. Seattle.

Prices do not include postage, freight or express charges.

NORTHERN SAVINGS AND LOAN ASSOCIATION,

320 Globe Building,

Randall-McLoughlin,  
Seattle.

Seattle, Wash., Aug. 13, 1919.

Gentlemen:—

I cannot resist the temptation to write regarding your powder "Magotite." I had planted 15 dozen Aster plants, and was intending to buy a new sprayer and "dope" to give them when I asked you if you had anything that would kill the bugs, and on your recommendation took home a package. The plants were already kinkling up with the bugs, and with little hopes that the powder would prove efficient, I drew a little ring around each plant and sprinkled in the powder. The result is simply marvelous.

Every plant came out in perfect shape, and no signs that there was ever a bug on them. We had almost decided to give up raising Asters, and when I think of the number of times I sprayed last year, the expense and back-breaking work, and then see the beautiful bed this year, with a few minutes' work and trifling expense, I feel that I owe it to other flower lovers to commend it.

I used the powder on cucumbers and cabbage with the same result. Not a bug on any of them.

Yours very truly,

S. C. Calderhead.  
Seattle, Wash., July 16, 1919.

Randall-McLoughlin,  
Seattle.

3000 Railroad Ave.,  
Seattle, Wash., July 16, 1919.

Gentlemen:—

I promised you recently that I would give you a report on Magotite, and am now able to say that it is all that you claim for it. I have used it on cabbages, radishes, onions and strawberries.

There is no doubt whatever that it is a sure remedy for root maggots, and it has entirely eliminated the strawberry crown borer wherever I have used it. Several of my customers have also reported to similar results from the use of Magotite. My business as a gardener has given me an excellent opportunity to check up in making these tests, and I can with all confidence assure you that Magotite is all right and quite what you claim for it.

Yours truly,

A. M. Fry.

Randall-McLoughlin,  
Seattle.

Seattle, Wash., June 5, 1919.

Gentlemen:—

It is hardly possible to pen the good results of Magotite. We had tried for eight years to raise cabbages, but failed on account of maggots. On the first trial of Magotite we have had great success, also with cauliflower, and our radishes were certainly wonderful, fine, big, red ones with not a maggot to be found.

Yours sincerely,

Wm. H. Shorey.



## INOCULATE YOUR ALFALFA, CLOVERS, PEAS, VETCHES AND ALL OTHER LEGUME CROPS WITH

# Mulford Cultures

Small Cost—Large Returns—Easy to Use—No Labor Expense

Mulford Cultures contain pure, tested strains of active, vigorous nitrogen-fixing bacteria for inoculating seeds of legumes, or soil. Enormous numbers of these very valuable and desirable bacteria are thus available to you in every package of Mulford Culture, and may readily be applied to your seed.

### Increase Your Crops. Improve Your Soil.

Legumes offer the best known means of maintaining soil fertility and rejuvenating overcropped and wornout fields. They add both humus and nitrogen to your soil, and thus increase the yield of any future crop.

The United States Department of Agriculture and many State Agricultural Experiment Stations recommend inoculation of legumes with nitro-fixing bacteria to induce a prompt catch and increase yield.

Mulford Cultures are scientifically prepared and tested by experts in the biological laboratories of H. K. Mulford Co., Philadelphia, with the same degree of care as Mulford Antitoxins, Serums, Vaccines, etc., which are standard all over the world.

Be sure to specify in your order what crop you wish to inoculate. There is a different strain of bacteria for each of the following legumes:

ALFALFA, RED CLOVER, WHITE CLOVER, SWEET CLOVER, ALSIKE CLOVER, VETCH, FIELD BEANS, GARDEN PEAS, SWEET PEAS, GARDEN BEANS, AND LIMA BEANS.

It is of no use on crops other than legumes.

### PRICES

Mulford Cultures for the varieties of legumes listed above are supplied at the following prices:

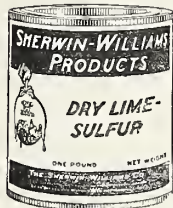
Five Acre Size .....	\$5.00
One Acre Size .....	1.50
One-Quarter Acre Size .....	.50

SMALL SIZE, For Garden Peas, Garden Beans, Lima Beans and Sweet Peas, only, 25c  
Postage additional.



Alfalfa plant on the left not inoculated. Plant on the right inoculated with Mulford Culture for Alfalfa. All other conditions identical. This contrast speaks for itself.

## SPRAYS



### DRY LIME—SULFUR

The use and success of Lime-Sulfur Solution is known to practically every fruit grower in the country, and every grower is also familiar with the inconvenience and unpleasantness in handling liquid Lime-Sulfur. The barrels are very heavy to handle—there is over 50% water, which means

heavy freight charges. It freezes in cold weather and leaks in summer.

Sherwin-Williams Dry Lime-Sulfur is standard Lime-Sulfur Solution in dry powdered form—the first and only one of its kind on the market. It has all the advantages of the liquid material, but eliminates the disadvantages.

Price, 1 lb., 30c; 5 lbs., \$1.25; 10 lbs., \$2.50; 25 lbs., \$4.50; 50 lbs., \$8.00; 100 lbs., \$12.00.

### REX LIME AND SULPHUR SOLUTION

For those who still prefer the Lime and Sulphur Solution, we supply this, the best of the old style sulphur sprays.

1 gallon, 75c; 5 gals., \$2.50; barrel, \$13.00

### BLACK LEAF 40

A concentrated solution of nicotine sulphate guaranteed to contain 40% nicotine. Highly recommended for the destruction of Aphids and other soft bodied insects.

1 ounce (about 6 gallons of spray).....	\$0.25
1/2 lb. (40 to 150 gallons of spray).....	1.00
2 lbs. (160 to 600 gallons).....	3.25
10 lbs. (800 to 3,000 gallons).....	13.75

### NICO-FUME LIQUID

For fumigating greenhouses and spraying for Aphids and other plant lice.

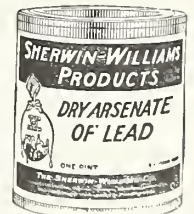
Price, 1/4-lb. can, 75c; 1-lb. can, \$2.00; 4-lb. can, \$7.50; 8-lb. can, \$14.50.



### DRY ARSENATE OF LEAD

Stays thoroughly in suspension, giving uniform strength. It has maximum of killing power, speedy action and unquestionable effectiveness in controlling leaf eating and chewing insects. It has unusual adhesiveness, clinging to the foliage the longest possible time.

Price, 1/2 lb., 40c; 1 lb., 70c; 5 lbs., \$3.00



### INVICTA SPRAY

A nicotine and soap compound spray for Roses, Fruit Trees, Bushes, Shrubs, Gardens and House Plants for the control of Aphids, Thrips, Leaf Hopper and other forms of plant lice. One quart of the compound will make ten gallons of spray. Price, 1 quart, 50c; 1 gallon, \$1.50

### FUNGI-BORDO

Dry Powdered Fungi-Bordo is a true Bordeaux Mixture in dry powdered form, requiring only to be mixed with cold water to give a standard Bordeaux Mixture Spray.

Price, 1 lb., 60c; 5 lbs., \$2.50.

### PARIS GREEN

A standard poison for killing all leaf eating insects. Cannot be shipped by parcel post.

Price, 1/4 lb., 35c; 1 lb., 60c; 1 lb., \$1.00

### NICO-FUME PAPER

Strongly saturated with nicotine, to be burned in greenhouse.

Air-tight can, 24 sheets, .....	\$1.25
Air-tight can, 144 sheets, .....	\$5.00





## SPRAY APPLIANCES

### AUTO-SPRAY NO. 1-D, COMPRESSED AIR SPRAYER.

The strongest and simplest compressed air sprayer. Two pumpings of about fifteen strokes of the plunger will discharge the contents under high and constant pressure. It is used for spraying trees, shrubs, vines, field crops, greenhouses, poultry houses, etc.; for applying Paris green, arsenate of lead, bordeaux, lime and sulphur, disinfectants, fly liquids, lice liquids, etc.

The tank is made of galvanized steel, and holds  $3\frac{1}{2}$  gallons. The air pump cylinder is made of seamless brass tubing. Price, \$6.75

### AUTO-SPRAY NO. 6, BUCKET PUMP

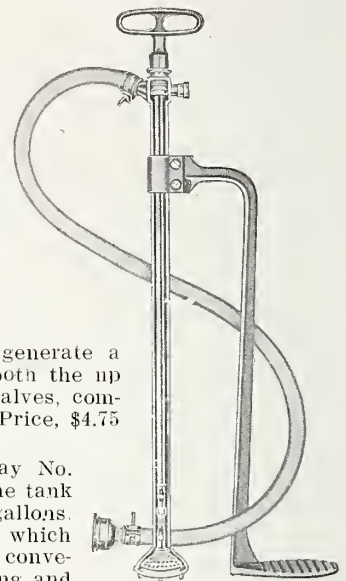
The most powerful bucket pump manufactured. Can easily generate a pressure of 200 lbs. It is double acting, and sprays perfectly on both the up and down strokes, making the spray continuous. The pump and valves, complete, are made entirely of brass. Shipping weight, 6 lbs. Price, \$4.75

### AUTO SPRAY NO. 3-B

A general purpose orchard, field and whitewash sprayer, especially valuable for whitewashing. The heavy galvanized steel reservoir has a capacity of eight gallons, the pump is on the principle of a force pump, and will generate a pressure of 100 lbs. Price, \$15.00

### AUTO-SPRAY NO. 3-D

The same as the Auto-Spray No. 3-B, except that it is larger, the tank having a capacity of twelve gallons, and is mounted on a truck, which makes it the best and most convenient outfit for general spraying and white-washing. Price, \$22.00



Auto-Spray, No. 6



Auto-Spray  
No. 1-D

reservoir has a capacity of eight gallons, the pump is on the principle of a force pump, and will generate a pressure of 100 lbs. Price, \$15.00

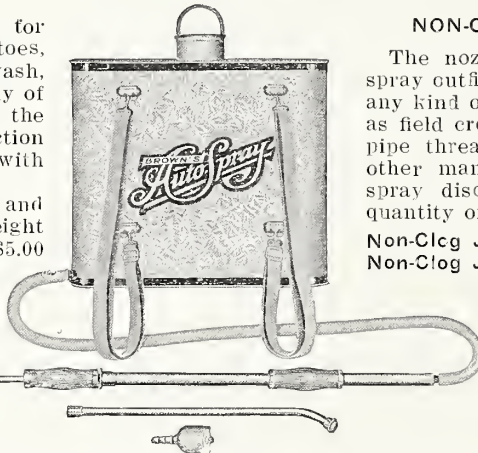
### AUTO-SPRAY NO. 5

The ideal all-purpose hand sprayer, used for spraying trees, vines, garden truck, potatoes, or any field crop; also for handling whitewash, disinfectants, etc. The pump is made entirely of brass, and works on the same principle as the Auto-Spray No. 6. It may be used in connection with any bucket or tank, or may be used with the Knapsack as shown in cut.

**Auto-Spray No. 5.** Pump, Hose, Nozzle and Strainer; without Knapsack. Shipping weight 4 lbs. Price, \$5.00

**Knapsack for Auto-Spray No. 5.** A galvanized iron reservoir to be carried on the back. Shipping weight  $7\frac{1}{2}$  lbs. Price, \$3.50

**Extension for Auto-Spray No. 5.** A curved brass extension. Shipping weight 1 lb. Price, 75c



Auto-Spray No. 5 with Knapsack and Extension

### NON-CLOG JUNIOR SPRAY NOZZLES

The nozzle is a very important part of the spray outfit. This nozzle can be used for almost any kind of work; for spraying orchards as well as field crops. It is made with standard  $\frac{1}{4}$ -inch pipe thread, and may be used on sprayers of other manufacture. It is furnished with four spray discs with different holes, so that the quantity of solution may be regulated.

**Non-Clog Junior.** Brass. Straight. Price, 75c  
**Non-Clog Junior.** Brass. Angle. Price, 75c

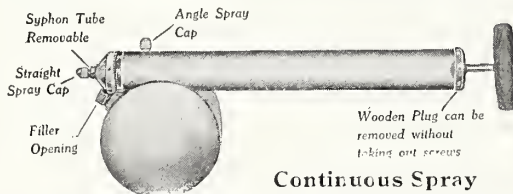
### TWO FOOT BRASS EXTENSION

For tree work, two or more of these extensions may be screwed together. Price, 60c

### BRASS ELBOW

For reaching the under side of leaves. Will fit either the shut-off or extension. Price, 40c

### WHEN APHIS APPEAR ON YOUR ROSES USE INVICTA SPRAY



Continuous Spray

### AUTO-SPRAY NO. 25, CONTINUOUS ATOMIZER

A small hand atomizer, with a capacity of one quart, operating continuously on both the up and down stroke. It will handle all solutions, insecticides and disinfectants. Equipped with two spray caps, one for straight and one for angle spraying.

**No. 25-B.** One quart. Tin pump, galvanized tank. Price, \$1.00  
**No. 25-C.** One quart. Tin pump, brass tank. Price, \$1.25



**DEFIANCE Double Hexagon Hose.** Extra strong and durable. Spirally woven cord in two thicknesses with rubber between. Best quality rubber. Seamless. Not liable to kink. Price per foot:  $\frac{3}{4}$  inch, 25c;  $\frac{5}{8}$  inch, 23 $\frac{1}{2}$ c;  $\frac{1}{2}$  inch, 22c  
**LYON Smooth Cover Hose.** Built like the Double Hexagon except that it is round and smooth. Spirally woven cord in two thicknesses. Seamless. Splendid quality rubber. Price per foot:  $\frac{3}{4}$  inch, 24c;  $\frac{5}{8}$  inch, 22 $\frac{1}{2}$ c;  $\frac{1}{2}$  inch, 20 $\frac{1}{2}$ c  
**ZULU.** Like Lyon, but a cheaper grade of rubber. Price per foot:  $\frac{3}{4}$  inch, 21c;  $\frac{5}{8}$  inch, 19 $\frac{1}{2}$ c;  $\frac{1}{2}$  inch, 18c  
**COTTON Green Line Garden Hose.** Good quality cotton hose. Price per foot:  $\frac{3}{4}$  inch, 14c;  $\frac{5}{8}$  inch, 13 $\frac{1}{2}$ c;  $\frac{1}{2}$  in, 12 $\frac{1}{2}$ c

All prices are F. O. B. Seattle. Hose is furnished in any length up to 500 feet. Couplings 50c per set additional.

## GARDEN HOSE

### IDEAL SPRAYER NO. 125

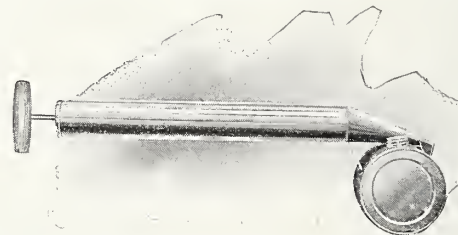
A small, tin, hand sprayer, handling all kinds of sprays, disinfectants, fly liquids, lice liquids, etc. Capacity of tank, one quart. Price, 65c

### MIDGET IDEAL SPRAYER NO. 122

Similar to the Ideal No. 125, except that it is smaller, and the tank holds only one pint of liquid. Price, 40c

### CONTINUOUS SPRAYER NO. 115

An excellent hand sprayer used for the same purpose as the Ideal, but provided with an air chamber, giving a continuous spray. Capacity one quart. Heavy tin. Price, \$1.00

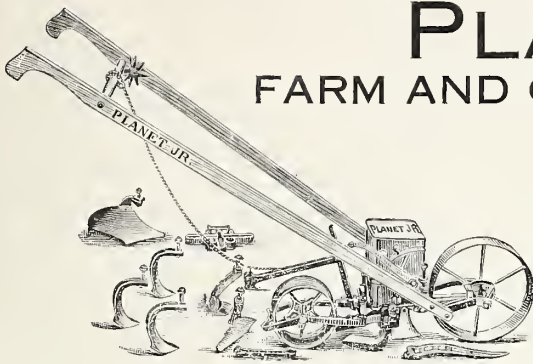




# PLANET JR.

## FARM AND GARDEN IMPLEMENTS

DO YOUR WORK  
EASIER  
BETTER  
AND  
CHEAPER



No. 4

### No. 4 PLANET JR. Combined Hill and Drill Seeder, Single Wheel Hoe, Cultivator and Plow

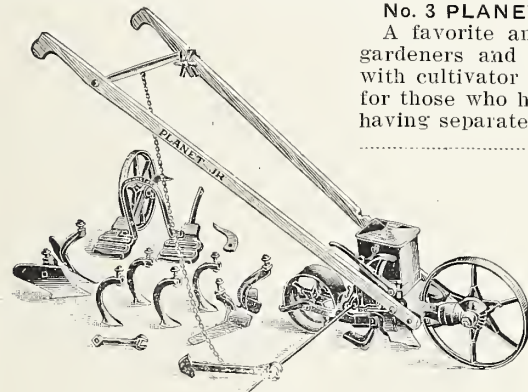
Sows all garden seeds from the smallest up to peas and beans in hills 4, 6, 8, 12, or 24 inches apart, or in drills at the proper thickness and depth, rolling down and marking the next row. By removing the seeder parts and substituting the tool frame, you have a first class single wheel hoe, cultivator and plow. Weight 50 lbs. Price, F. O. B. Seattle, \$20.25

**No. 4-D PLANET JR. Hill and Drill Seeder** The same as No. 4 without hoes, cultivator and plow attachments. These attachments may be added later if desired. Weight 40 lbs. Price, \$16.25

### No. 3 PLANET JR. Hill and Drill Seeder

A favorite among onion growers, market gardeners and seedsmen. Cannot be used with cultivator attachments. Recommended for those who have work enough to warrant having separate implements. Weight 43 lbs. Price, \$19.25

### No. 25 PLANET JR. Combined Hill and Drill Seeder, Double and Single Wheel Hoe, Cultivator and Plow.



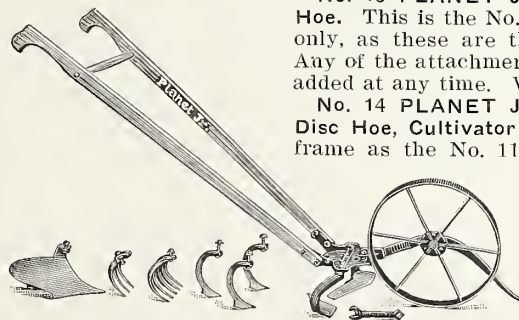
No. 25

inch steel wheels. Straddles the crop until twenty inches high, then can be worked between the rows with either one or two wheels. Shipping weight 39 lbs. Price, F. O. B. Seattle, \$16.75

**No. 12 PLANET JR. Double and Single Wheel Hoe, Cultivator and Plow.** This is the same as No. 11 except that it has only one pair of hoes, one pair plows, four cultivator teeth and a pair of leaf lifters. Price, \$13.25

**No. 13 PLANET JR. Double and Single Wheel Hoe.** This is the No. 11 or No. 12 with 6 inch hoes only, as these are the tools that are most used. Any of the attachments shown with No. 11 may be added at any time. Weight 28 lbs. Price, \$10.00

**No. 14 PLANET JR. Double and Single Wheel Disc Hoe, Cultivator and Plow.** This is the same frame as the No. 11, but is equipped with three adjustable discs on each side, one pair prong cultivator teeth, and one pair plows. Shipping weight 38 lbs. Price, \$15.00



No. 16

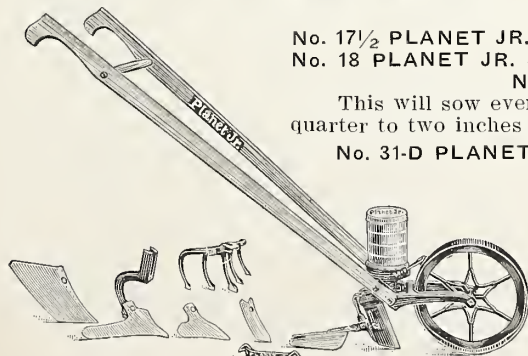
**No. 17 1/2 PLANET JR. Single Wheel Hoe.** Same as No. 16 with hoes and cultivator teeth only. \$8.50

**No. 18 PLANET JR. Single Wheel Hoe.** Same as No. 16 with hoes only. Weight 19 lbs. \$7.25

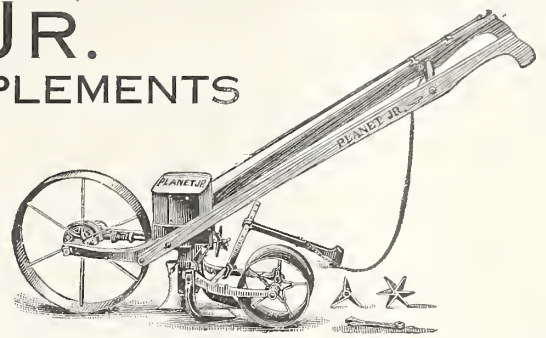
### No. 31 PLANET JR. Combined Drill Seeder and Wheel Hoe.

This will sow even a small packet of garden seed with great precision in a narrow row from one-quarter to two inches deep. Quickly changed to a wheel hoe. Weight 32 lbs. Price, \$13.75

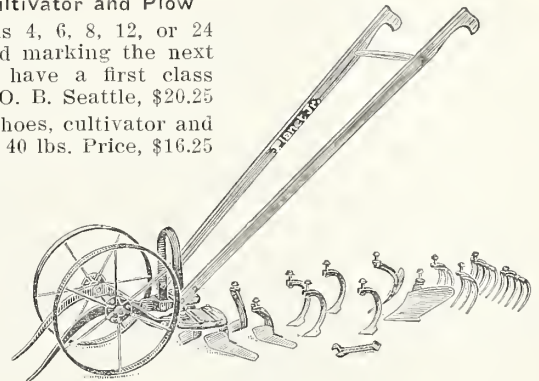
**No. 31-D PLANET JR. Drill Seeder.** The same as No. 31 without cultivating attachments. \$11.25



No. 31



No. 3

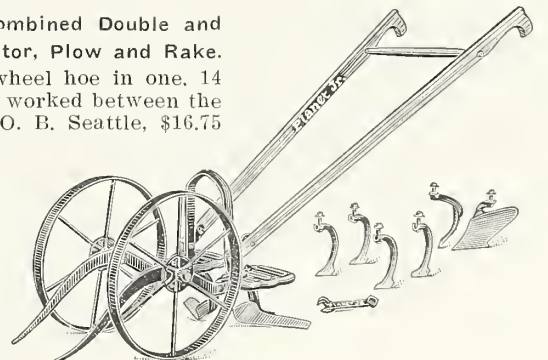


No. 11

As a seeder this is practically the same as the No. 4, and as a wheel hoe has the same steel frames and cultivating attachments as the No. 12 Double Wheel Hoe. Shipping weight 61 lbs. Price, F. O. B. Seattle, \$23.75

### No. 11 PLANET JR. Combined Double and Single Wheel Hoe, Cultivator, Plow and Rake.

A double and single wheel hoe in one. 14



No. 12

### No. 16 PLANET JR. Single Wheel Hoe, Cultivator, Rake and Plow.

Single wheel hoes are lighter than the double and do almost the same work. They are used mostly between the rows, but by mounting the wheel on the other side of the arm they may be used on both sides of the row while the plants are small. Shipping weight 26 lbs. Price, F.O.B. Seattle, \$11.25

**No. 17 PLANET JR. Single Wheel Hoe.** Same as No. 16 without rakes. \$9.75

**No. 17 1/2 PLANET JR. Single Wheel Hoe.** Same as No. 16 with hoes and cultivator teeth only. \$8.50

**No. 18 PLANET JR. Single Wheel Hoe.** Same as No. 16 with hoes only. Weight 19 lbs. \$7.25

### No. 31 PLANET JR. Combined Drill Seeder and Wheel Hoe.

This will sow even a small packet of garden seed with great precision in a narrow row from one-quarter to two inches deep. Quickly changed to a wheel hoe. Weight 32 lbs. Price, \$13.75

**No. 31-D PLANET JR. Drill Seeder.** The same as No. 31 without cultivating attachments. \$11.25

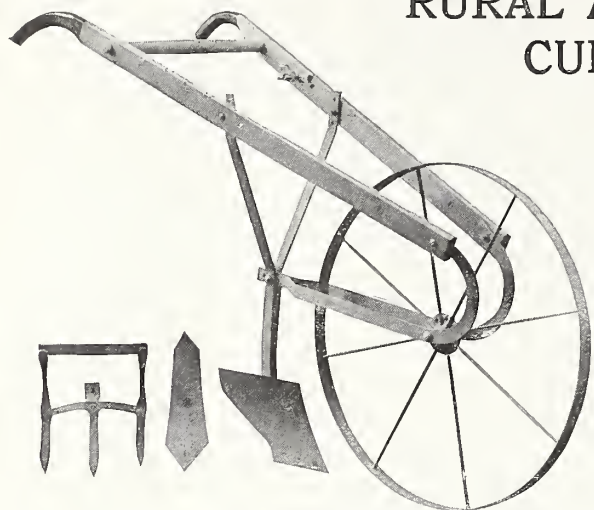
### ATTACHMENTS FOR PLANET JR. IMPLEMENTS.

Peat Land Hoes. Weight 5 1/2 lbs. per pr.	Price, F. O. B. Seattle, pair,	\$2.75
Disc Hoes. Weight 5 1/2 lbs.	per pair,	4.00
6-inch Hoes. Complete. Weight 2 1/2 lbs.	per pair,	1.85
4 1/2-Inch Hoes. Weight 2 lbs.	per pair,	1.75
3 Prong Cultivator Teeth. Weight 2 1/2 lbs.	per pair,	2.50
8-inch Onion Harvester. Weight 1 1/4 lbs.	each,	2.00
Cultivator Teeth	each,	.55

For other attachments and repairs, write for prices.

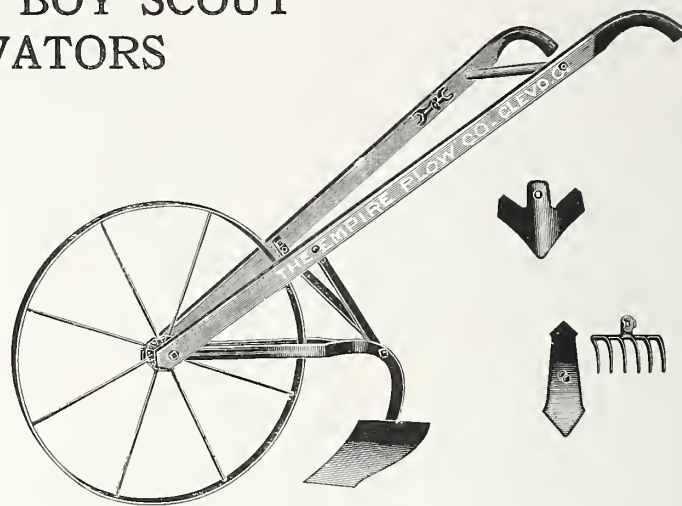


## RURAL AND BOY SCOUT CULTIVATORS



### BOY SCOUT GARDEN PLOW AND CULTIVATOR

All steel except the handles. The swing frame and extended curved handles insure easy running and a steady draft. Equipped with Plow, Rake, Weeder and Double Diamond Point Markers. Has twenty-four inch steel wheel. Tools are sharpened and polished and will scour in use. Shipping weight 24 lbs. Price, F. O. B. Seattle, \$5.50



### RURAL GARDEN PLOW AND CULTIVATOR

A light, strong and serviceable Garden Plow, Cultivator, Hoe and Rake. Made of steel throughout except the handles. Equipment includes Plow, Sweep, Reversible Shovel, Rake and Wrench. Shipping weight 20 lbs.

Price, F. O. B. Seattle, \$5.00

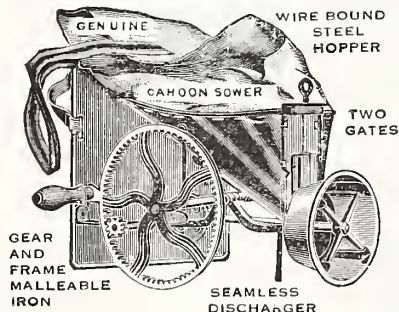
### THE CAHOON BROADCAST SEEDER

The Cahoon Seed Sower is recognized the world over as the standard broadcast seed sower. This machine has been on the market well over half a century, and during all these years it has stood at the head of its class.

It is made of steel, iron and brass, and so constructed that with ordinary use it will last a lifetime. When used according to directions it is guaranteed to perform its work with perfect satisfaction.

It sows wheat, barley, oats, rye, buckwheat and other grains and grasses five times faster than by hand, and by its even distribution will effect a saving of one-third in the seed.

At a common walking gate it will sow from four to eight acres per hour, according to the seed used. Shipping weight 8½ lbs. Price, F. O. B. Seattle, \$5.00



### HOCKING VALLEY CIDER MILLS

The Hocking Valley Cider Mills are adapted to the principle of the large hydraulic presses to a hand mill. The grinding device consists of a hardwood cylinder, with serrated steel knives running lengthwise which break down the juice cells and make a pomace that yields under the press every particle of juice in the fruit. A quart of water will clean it after using. An important feature of these mills is the absence of metal of any kind to rust and impair the quality of the cider.

**HOCKING VALLEY BANTAM MILL.** This is the mill illustrated on the right. The tub is 10 inches in diameter by 10½ inches high. An ideal mill for family use. Can be used to press grapes and other small fruit. Weight 120 lbs. Price, F. O. B. Seattle, \$.....

### Hocking Valley Louble Tub Cider Mills

The two-tub Hocking Valley Cider Mills are made in the following sizes, all having greater capacity than corresponding sizes of other mills. The Hocking Valley Junior, in capacity, almost equals the medium of other mills.

Frames are substantially built to stand all strains to which they may be subjected. Tinned rivets used to prevent any rust reaching the cider. Pulleys for operating the Medium and Senior mills by power can be furnished with these mills as an extra.

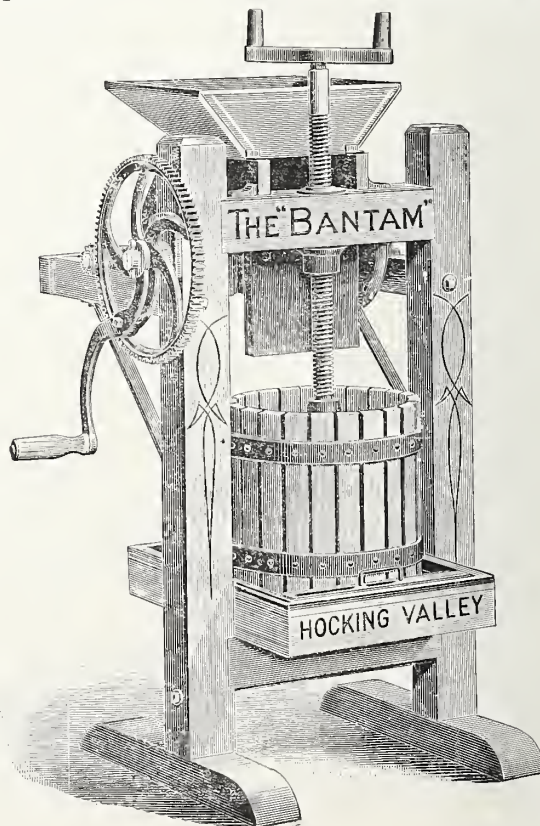
**JUNIOR HOCKING VALLEY CIDER MILL.** With two 10x10½ inch tubs. Weight 175 lbs. Price, F. O. B. Seattle, \$.....

**MEDIUM HOCKING VALLEY CIDER MILL.** With two 12x12½ inch tubs. Weight 255 lbs. Price, F. O. B. Seattle, \$.....

**SENIOR HOCKING VALLEY CIDER MILL.** With two 14x15½ inch tubs. Weight 360 lbs. Price, F. O. B. Seattle, \$.....

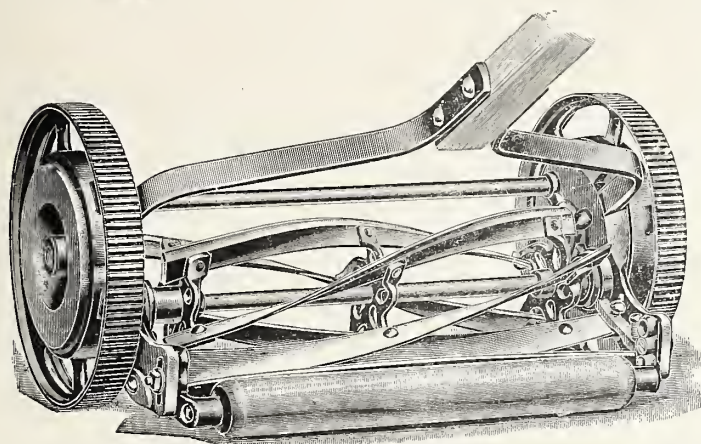
Pulley for Medium and Senior Mill. \$.....

Unable to quote prices at time of going to press. Write for prices.



Have you had trouble with Root Maggots  
on your radishes, cabbages, onions, turnips, and kale?  
See page 44





Colonial

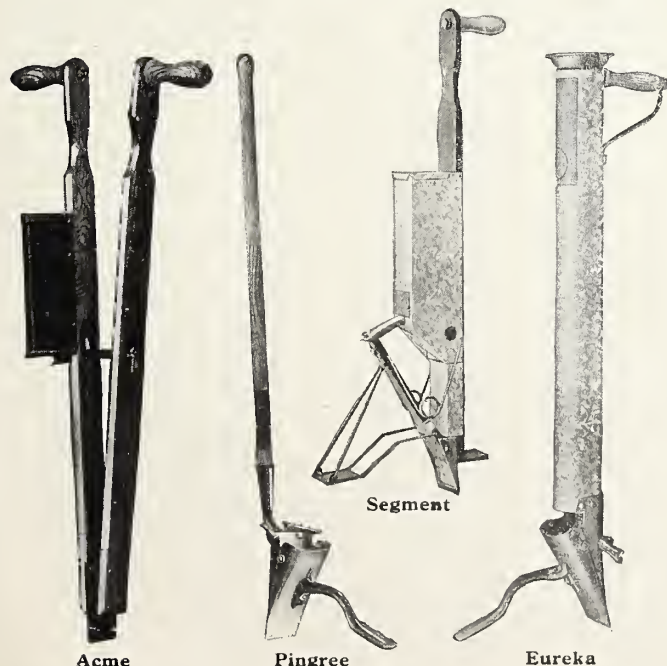
steel under knife hardened and tempered. Finish black and gold wiper. 12 inch cut. Weight 38 lbs. .... \$7.75  
 14 inch cut. Weight 42 lbs. .... 9.00  
 16 inch cut. Weight 42 lbs. .... 10.50  
 18 inch cut. Weight 44 lbs. .... 12.00

### TILIKUM BALL BEARING LAWN MOWER

Nine inch drive wheels. Four tempered tool steel blades on reel. Ball bearing. Crucible tool steel under knife hardened and tempered. Finish white and gold wheels, gold wiper and braces.  
 14 inch cut. Weight 42 lbs. .... \$11.00  
 16 inch cut. Weight 44 lbs. .... 12.50  
 18 inch cut. Weight 46 lbs. .... 13.75

## GARDEN TOOLS

HOE, No. GS20. Bronzed, Solid Socket, Field or Garden. Sizes 7, 7½, and 8 inch. .... Price, each, \$1.00  
 HOE, No. GM20. Solid Shank, Field or Garden, Bronzed. Sizes 7, 7½, and 8 inch. .... .90  
 HOE, No. 7½W. Pointed, Field or Garden, 7½x6½ inch blade. Polished. Solid socket. .... 1.20  
 HOE, No. BB6. Cultivator. Riveted shank. 6 in blade .90  
 HOE, Acme Weeding, No. A. 2 prongs. Riveted shank 1.20  
 TURF EDGER, No. 11. Solid shank. 52 inch handle 1.15  
 POTATO HOOK, No. 4AB. 4 tines. Bent head, 52 in. handle 1.15  
 RAKE, No. 12SM. Malleable iron. 12 teeth. .... .65  
 RAKE, No. 14SM. Malleable iron. 14 teeth. .... .70  
 RAKE, No. 12B. Steel. 12 curved teeth. Braced shank 1.10  
 RAKE, No. 14B. Steel. 14 curved teeth. Braced shank 1.20  
 RAKE, No. 16B. Steel. 16 curved teeth. Braced shank 1.25



Acme

Pingree

Eureka

## LAWN MOWERS

### COLONIAL BALL BEARING LAWN MOWER

Ten inch drive wheels. Five tempered tool steel blades in the reel. Patent cone adjustment. Ball races 1½ inch in diameter. ¼ inch tool steel balls. Crucible tool steel under knife hardened and tempered. Finish all gold with aluminum braces.

14 inch cut. Weight 44 lbs. .... \$13.00  
 16 inch cut. Weight 46 lbs. .... 14.50  
 18 inch cut. Weight 48 lbs. .... 16.00  
 20 inch cut. Weight 50 lbs. .... 17.50

### SUPERBA BALL BEARING LAWN MOWER

Eight inch drive wheels. Four tempered tool steel blades on reel. Patent cone adjustment. Ball races 1½ inch in diameter. ¼ in tool steel balls. Crucible



Five Prong Cultivator

If your time is worth anything you cannot afford to use poor tools.

### LAWN SPRINKLERS

HARTFORD. Pipe standard, spear point and revolving head. Height 2 ft. Weight 3 lbs. \$1.35  
 Height 4 ft. Weight 4 lbs. 1.50  
 Height 6 ft. Weight 4½ lbs. 1.75

PLUVIUS. Iron base. Japanned. Ball bearings. Brass arms. For ¾ inch hose, 11 inches high. Weight 3¼ lbs. .... \$1.75

RAKE, Lawn, No. 24. 24 tinned wire teeth. .... \$1.00  
 CULTIVATOR, Garden, No. 5. 5 prongs, ¼ inch square spring steel. Four foot handle. .... 1.30  
 CULTIVATOR, Garden, No. 5. 3 prongs, ¼ inch spring steel. Four foot ash handle. .... .85  
 WEEDER, Midget, No. MW. 3 steel prongs. For flowerers, shrubbery and garden work. .... .50  
 WEEDER, No. 45. 10½ in. long. 4 prongs, tinned. .... .30  
 WEEDER, No. 1. 5 prongs. Tinned. Malleable iron. .... .20  
 GARDEN SET, No. 3P.F. Rake, shovel and hoe. .... 1.80  
 GARDEN SET, No. 4P.F. Shovel, rake, hoe and fork. .... 2.70  
 SPADING FORK, No. SLD. 4 steel tines. D handle. .... 1.65  
 SPADING FORK, No. SL4. 4 steel tines. 4 ft. handle. .... 1.55  
 SPADE, Boys', No. 50. Cast steel, black, D handle. .... 1.55  
 SPADE, Pacific. Size No. 2. D handle. Solid cast steel 1.65  
 SPADE, Pacific. Size No. 2. Long handle. Solid cast steel 1.65  
 SPADE, Luther Burbank, No. D2. D handle. .... 2.15  
 SPADE, Luther Burbank, No. L2. Long handle. .... 2.15  
 SHOVEL, Pacific. Size No. 2. Long handle. Round point 1.65  
 TROWEL, Garden, No. 1645. .... .25  
 TROWEL, Transplanting, No. 1545. .... .25  
 GRASS HOOK, Colonial, No. 10. Steel blade. Highest quality. .... .55  
 GRASS HOOK, Colonial, No. 7. Offset blade. .... .35  
 GRASS SHEARS, Colonial, No. 267X. Solid steel, polished. .... .70

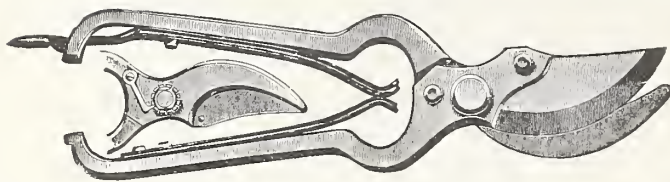
ACME CORN PLANTER. A two-handled planter, light, strong and durable. Especially adapted for planting in heavy, cloddy or stony soils. Will drop seed ranging from popcorn to kidney beans. Weight 15 lbs. .... \$1.50

PINGREE POTATO PLANTER. Easy to operate, simple, strong and durable. Adjustable to any depth desired. 4 lbs. .... 1.50

SEGMENT CORN PLANTER. A light, strong and accurate planter. The working parts are of steel, the brush of genuine Chinese bristles, the seed box and hopper of galvanized iron. Weight 5 lbs. .... 2.00

EUREKA POTATO PLANTER. Has a long tube which obviates the necessity of raising the planter for the purpose of depositing the potato in the jaws. Weight 5 lbs. .... 1.75

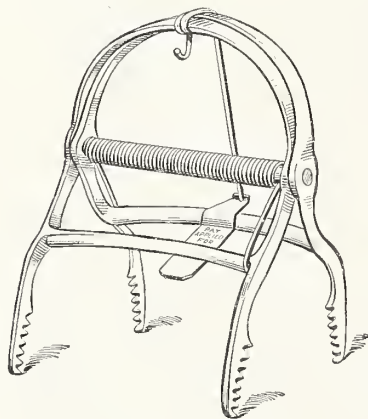




### COLONIAL PRUNING SHEARS

No. 103. Nine inch steel frame, full polished, hand forged steel blades, lock nut regulating ratchet, and double brass springs. Weight 1 1/4 lb. \$2.00

No. 900. Nine inch polished steel frame, polished steel blade, and riveted volute spring. Weight 1 lb. 1.50



### GRAFTING WAX

1/4 lb. \$0.20  
1/2 lb. .35  
1 lb. .75  
Postage additional.

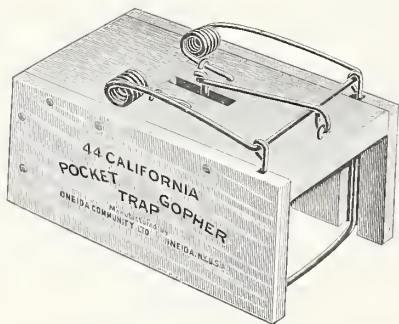
### RAFFIA

For nursery and greenhouse work, and for making baskets, etc. Natural color only. Sold in full skeins. Skeins vary in weight from 1 lb to 2 1/2 lbs.

Price per lb. \$0.60  
.. Postage additional. ....

### OUT O' SIGHT MOLE TRAP

When set in a regular runway, any mole that attempts to pass is sure to be caught. The best and most effective mole trap made. Light, neat and strong. Weight 1 1/2 lbs. \$1.00



### GOPHER TRAP

California Box Trap. The best and surest arrangement for catching gophers. Weight, 1 lb. Price.....Each, 25c; Doz., \$2.50

Prices do not include postage.

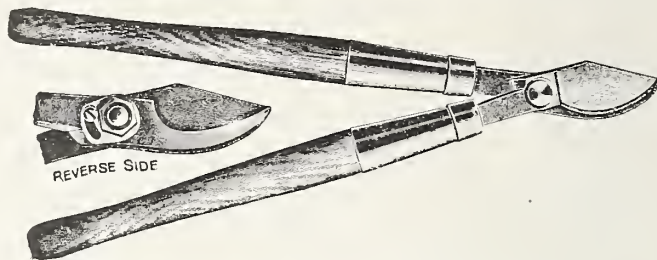
### POT LABELS

For labeling plants in pots, greenhouses, gardens or nursery rows. Made of white pine, painted.

Size	Weight per 100	—Price— per 100	per 1000
4x5/8 in.	5 oz.	\$0.20	\$1.50
5x5/8 in.	6 oz.	.20	1.75
6x5/8 in.	8 oz.	.30	2.00
10x5/8 in.	16 oz.	.45	4.75
12x5/8 in.	20 oz.	.65	7.00

### GLAZING POINTS

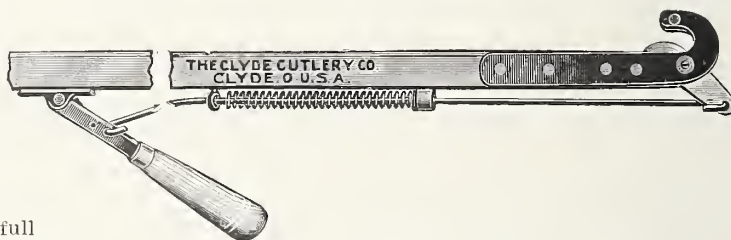
Peerless Glazing Points. For greenhouse and hotbed sash. Only two required for each pane of glass, and so constructed that the glass cannot slide. Packed 1,000 in box; weight, 1 lb. Price.....Per box of 1,000, \$0.85



### COLONIAL PRUNING SHEARS

No. 326. Fresno pattern. High tempered steel cutting blades. Best quality hardwood handles 26 inches long. Steel ferrules. Weight, 4 lbs. \$2.80

No. 2 RED CLIPPER, DRAW CUT. Blade, hook and shank are best tool steel; 22 inch handles, painted red. Weight, 5 lbs. \$2.35



### WATERS' TREE PRUNERS

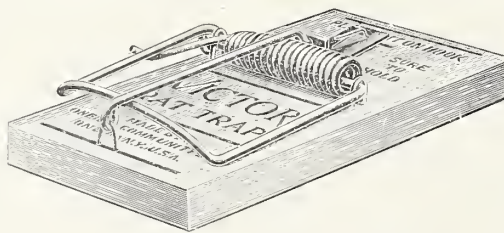
6 ft. With patent metallic brace plate. Weight 3 lbs. \$1.45  
8 ft. With patent metallic brace plate. Weight 3 1/2 lbs. 1.55  
10 ft. With patent metallic brace plate. Weight 4 1/2 lbs. 1.75

### HOTBED THERMOMETER

To test temperature of soil by thrusting into hotbeds, mushroom beds, etc. This is an extra strong and durable thermometer, encased in wood with steel point. \$1.75

### GREENHOUSE THERMOMETER

A well made, dependable and inexpensive thermometer for use in greenhouses and other places. Metal case. \$0.75



### VICTORY RAT TRAP

The most effective trap for catching rats and other varmints. It is released by slight movement either upward, downward or sideways, and is sure to catch.

Price.....Each, 25c; Doz., \$2.00

### VICTORY MOUSE TRAP

Same as the Victory Rat Trap except that it is smaller.

Price.....Each, 10c; Doz., \$1.00

### TREE LABELS

For labeling trees, plants, etc. Made of white pine, painted. Copper wired; 3 1/2 inch; weight, per 100, 7 oz. Price.....100, \$0.30; 1,000, \$2.30

### BAMBOO PLANT STAKES

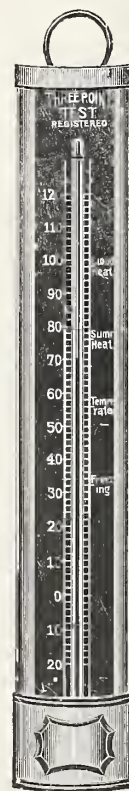
Six feet long; weight, 12 lbs. per 100. Price.....Doz., 25c; 100, \$1.25; 1,000, \$10.00

### JAPANESE TUBS FOR PLANTS

Empty saki tubs, 14 inches in diameter. Heavy bamboo hoops. Price.....Each, 50c

### STEEL GAME TRAPS

No. 1. Spread of jaw, 4 inches. Weight, 1 lb. Price .....Each, 75c





# RELIABLE STANDARD BLUE FLAME, OIL HEATED COLONY HOVER

It is sometimes difficult to procure hard coal. This hover burns coal oil, which is always easy to get. With this hover you can get any amount of heat that is needed, at all times, and when the needle valve is once set it will regulate the drop of oil automatically.

It will do better work than the coal burning brooder, with less trouble, less risk of fire going out, with equal success and with less cost. There is no dirt, no ashes.

It saves time, money and trouble, and chickens grow faster, get heavier and thrive better, because this hover takes the very best of care of them and keeps them comfortable, happy and healthy.

These hovers are made of galvanized steel and have steel



legs. Capacity of the 18-inch hover is 100 chicks or less; of the 30-inch hover, 350 chicks or less; of the 42-inch hover is 500 chicks or less, and of the 52-inch hover is 1,000 chicks or less.

You can fill the hover to full capacity or you can brood as few as you like with equal success.

There is nothing to wear out or break in this hover. There are no corners, no crowding, no piling up of chicks.

## PRICES, RELIABLE STANDARD BLUE FLAME, WICKLESS, OIL HEATED, COLONY BROODER

No.	Size	Capacity	Shipping weight	Price, F. O. B. Seattle
No. 00.	18 inch Hover.	Capacity 100 Chicks.	Shipping weight 14 lbs.	\$ 9.00
No. 0.	30 inch Hover.	Capacity 350 Chicks.	Shipping weight 40 lbs.	19.00
No. 1.	42 inch Hover.	Capacity 500 Chicks.	Shipping weight 45 lbs.	21.00
No. 2.	52 inch Hover.	Capacity 1000 Chicks.	Shipping weight 55 lbs.	25.00

Write for circular

# WINFORD ELECTRIC BROODER

The Winford Electric Brooder has been in use for several years, under severe tests, and has proved to be the best of the electric brooders. The main trouble experienced with electric brooders, namely, the burning out of the element, has been overcome. The Winford has been run for more than three years without defects developing.

The Winford is a simple but efficient hover which will give a satisfaction never before known with the brooding of chicks.

If you have electricity available, you will find the Winford a great saver of money, time and worry, and it will be a real pleasure to watch the progress of the baby chicks and not have to worry as to whether your fire is holding out or your lamp is properly filled.

The Winford Electric has no legs or corners for the chicks to crowd against, and they will not crowd as the heat is evenly distributed. It is just as warm in one place as another.

It is easy to clean. Nothing could be more simple than to pull the hover up out of the way to sweep or clean underneath.

There are many things in favor of an electric brooder, and only one against it, that is your ability to make use of electricity. A healthier chick is assured because of an even heat throughout the brooding season. The first cost is less.

The cost to operate is less. The time and work of operating is less. If larger capacity is required, it has been found more economical and better to use several of the 500 chick size than to use a larger hover.

## PRICES, WINFORD ELECTRIC BROODERS

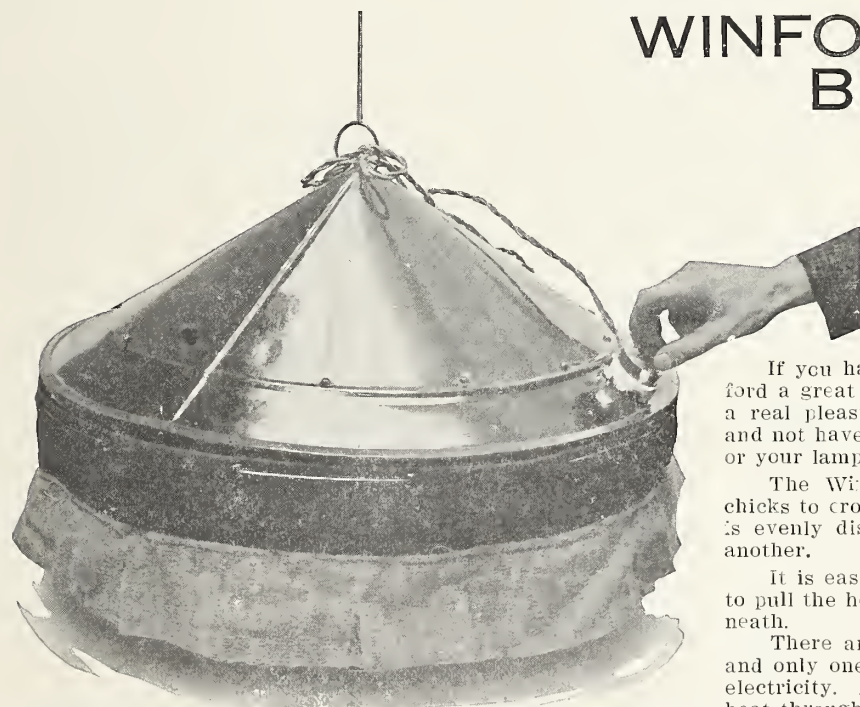
No.	Capacity	Shipping weight	Price, F. O. B. Seattle
No. 1.	Capacity 75 chicks.	Shipping weight 10 lbs.	\$ 6.50
No. 2.	Capacity 150 chicks.	Shipping weight 15 lbs.	9.00
No. 3.	Capacity 300 chicks.	Shipping weight 25 lbs.	13.00
No. 4.	Capacity 500 chicks.	Shipping weight 30 lbs.	17.00

No. 1 and No. 2 may be shipped by parcel post. Postage additional.

For success in poultry raising the following are essentials: Fertile Eggs from Healthy Stock of a good Laying Strain; a Good Incubator; a Good Brooder; Absolute Cleanliness and Pure Air; Clean, Fresh Water; Green Food; Invicta Chick Food and Invicta Chick Mash. We can provide all except the cleanliness, air, water and green food.

If you do not care to hatch the Chicks, we can furnish them. If you want Breeding Stock, consult us.

Come in and see us hatch chicks in the Mammoth Buckeye Incubator in our show window. Chicks hatching every day during the season.

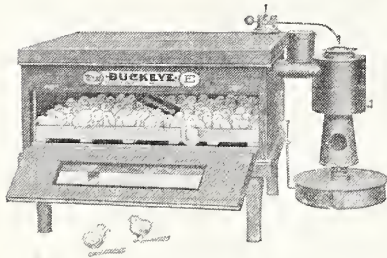




# BUCKEYE INCUBATORS

## The Perfect Hatchers

Are Guaranteed to Hatch MORE Chicks and BETTER Chicks Than Any Other Incubator



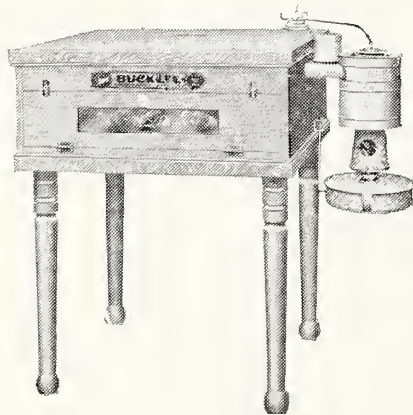
No. 14  
Style E

Weight, crated for shipment, 55 lbs.  
Capacity, 60 eggs. Price.....\$17.50

No. 14 is especially adapted for use by the small raiser. It has all the important features of the larger machines, such as visible thermometer, and the Buckeye heating and ventilating system. The temperature is easily regulated and the consumption of oil is low.

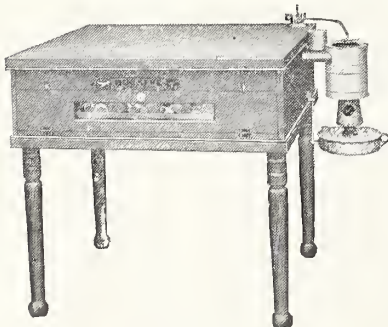
No. 16, Style E. Capacity 110 eggs; weight, crated for shipment, 85 pounds. Price, \$27.50. This machine is the same as No. 14, except that it has a greater egg capacity and long legs instead of short ones.

No. 17, Style E. Capacity 200 eggs; weight, crated for shipment, 125 pounds. Price, \$37.50. Same as No. 16, except that it has greater egg capacity.



No. 16  
Style E  
120 Eggs  
Price \$27.50

All Style E incubators have single walls and are equipped with galvanized rust-resisting heaters.



No. 17  
200 Eggs  
Price \$37.50

We are exclusive agents in Seattle for the famous Buckeye Incubators and Brooders. Years of experience in the poultry supply business has convinced us that these are the most efficient hatchers on the market. The Buckeye Incubators are sold under an iron-clad GUARANTEE to hatch a chick from every hatchable egg. This is the guarantee the makers give with every machine sold.

### WHY THE BUCKEYE SUCCEEDS

The unprecedented success which has followed the Buckeye for twenty-five years is primarily due to the invention of the Buckeye hot-water system. Without this wonderful system of hot-water heating, that perfect balance between the temperature, moisture and ventilation which is so necessary to successful incubation would be a physical impossibility. The ability to heat the egg chamber without cooking all the moisture out of the air is not only responsible for the abundant supply of natural moisture, but at the same time the soft radiated heat from the hot-water tank provides an absolutely uniform temperature, and permits the perfect ventilation of the egg chamber at the same time.

Without this system of hot-water heating it would be necessary to heat the egg chamber with currents of hot air, and it is now an established fact that the temperature and ventilation of incubator cannot be successfully balanced where hot-air currents are used.

Too much emphasis cannot be attached to the importance of keeping impure gases and fumes out of an incubator. Instead of passing the hot-air fumes through the incubator, with a likelihood of leakage in the conductor at any time, we heat the hot water on the outside—send it circulating around the egg chamber—and keep all the fumes from the lamp on the outside. It takes but a very small portion of lamp fumes to kill the developing chicks, and by circulating hot water through the egg chamber instead of hot air we entirely eliminate all possibility of damage to the eggs.

### BUCKEYE GUARANTEE

This Buckeye Incubator is guaranteed to hatch every hatchable egg, and we further guarantee the perfect working of all its mechanical parts.

### HATCH MORE AND STRONGER CHICKS

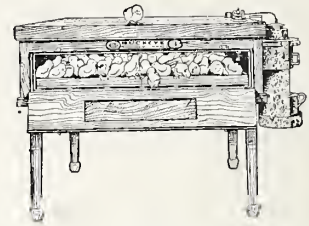
The Buckeye will hatch more chicks and stronger chicks than any other make of incubator. It requires no artificial moisture; will operate satisfactorily in any climate, and requires no attention to the regulator from the time a hatch is started until it is finished. Any Buckeye incubator, regardless of size or style, can be heated to 103 degrees inside of an hour. The average incubator requires from 12 to 24 hours to reach this degree of heat.

### NO PREVIOUS EXPERIENCE NECESSARY

It is not necessary to have any previous experience to operate a Buckeye. The entire Buckeye system is so simple that a boy or girl can operate it as satisfactorily as an experienced operator.

### BUCKEYE STANDARD INCUBATORS

The Buckeye Standard is an improved Buckeye. It is fire-proof and fool-proof. It is equipped with every desirable device that could possibly add to the efficiency of an incubator. Only the best material is used throughout, and a Standard should last a lifetime. In addition to being the most satisfactory hatcher on the market, the Standard Buckeye is fire-proof, and, therefore, insurable. Each machine is inspected by the National Board of Insurance Writers before it is put on the market.

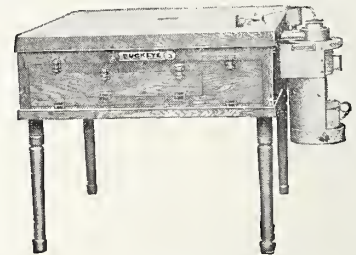


No. 1  
Standard  
120 Eggs  
Price \$39.50

No. 1 Standard has a capacity of 120 hen eggs, or 85 duck eggs. It is complete in every detail, and is ready for immediate use. The weight, crated for shipment, is 100 pounds. This incubator is insurable, and bears the Underwriters' label. An improved feature of all Standard Incubators is the enclosed lamp. Equipped with oil or gas heater.

No. 2 Standard has a capacity of 175 hen eggs or 140 duck eggs, is equipped with oil or gas heater, and is complete and ready for use. Weight, crated for shipment, 135 pounds. This machine is insurable, and bears the Underwriters' label. Price, \$45.00.

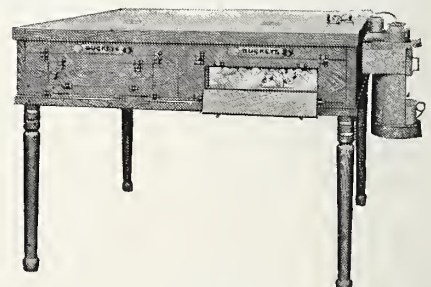
No. 3 Standard has a capacity of 250 hen eggs or 200 duck eggs, is equipped with oil or gas heater, and is complete and ready for use. Weight, crated for shipment, 200 pounds. This machine is insurable, and bears the Underwriters' label. Price, \$57.50.



No. 3  
Standard  
250 Eggs  
Price \$57.50

No. 4 Standard has a capacity of 350 hen eggs or 280 duck eggs. Equipped with oil or gas heater, and is ready for use. Weight, crated for shipment, 230 pounds. Insurable, and bears Underwriters' label. This machine is very convenient for the commercial raiser. Price, \$67.50.

No. 5 Standard (Mammoth Standard). Capacity, 600 hen eggs or 480 duck eggs. Outside dimensions, 54 inches square, 36 inches high. Equipped with four egg trays, holding 150 eggs each. Double doors on front and back; oil or gas heater. Complete and ready for use. Bears Underwriters' label. Weight, crated for shipment, 325 pounds. Price, \$110.00.



Standard No. 5  
600 Eggs  
Price \$110.00

Randall knows the care taken in building "Buckeye" Goods. He has seen them built from start to finish

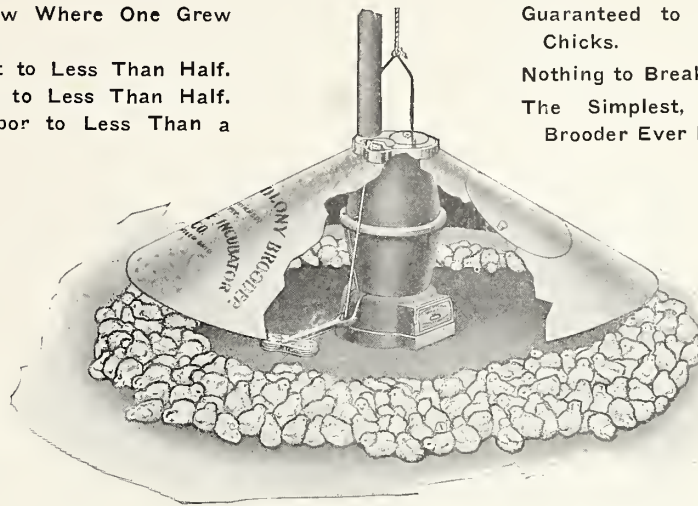


# THE STANDARD COLONY BROODER

Patented July 4, 1916; April 24, 1917; May 8, 1917)

Makes Three Chickens Grow Where One Grew Before.  
Cuts the Cost of Equipment to Less Than Half.  
Cuts the Cost of Operation to Less Than Half.  
Reduces the Time and Labor to Less Than a Fourth.

Guaranteed to Raise More Chicks and Better Chicks.  
Nothing to Break. Nothing to Wear Out.  
The Simplest, Safest and Most Economical Brooder Ever Invented.



Coal Burning

The Most Remarkable Brooder Ever Invented

Self-Feeding

Self-Regulating

Everlasting

Cuts the Cost of Equipment and Operation to Less Than Half—Reduces the Time and Labor to Less Than a Fourth. Nothing to Break. Nothing to Wear Out. The Simplest, Safest and Most Economical Brooder Ever Invented.

**BUCKEYE BROODER STOVES** will do anything any other brooder will do—regardless of price—and do it better. It matters not whether you have ten or ten hundred chicks under a Standard Colony Brooder, the results are the same. You can remove part of the chicks or increase the number at any time.

**Air Always Pure and Fresh**—No dampers or valves of any kind between the smoke pipe and the fire, the draft being controlled automatically, an exclusive feature of the Standard Colony Brooder and the only coal-burning Brooder that is absolutely free from gases under the Hover.

**Operated Anywhere**—No room is too large or too small for a Standard Colony Brooder. Whether it is operated in the largest barn or the smallest colony house, the results will be the same.

**Burns Any Fuel**—Hard or soft coal, charcoal, coke, briquettes or gas. Hard coal is best simply because it is cleaner. All fuel should be nut size.

**Regulator**—Two double disc thermostats—tandem hitched—supported on substantial casting that is bolted solidly to stove. Lower arm movable and attached to check valve by substantial iron rod. Chick-proof, accurate and positive.

**Standard Colony Brooder** is fire-proof, simple and requires little attention; has but one adjusting nut, which you need never touch more than once in a season. Requires absolutely no more attention than filling with coal once a day, shaking down the ashes into the pan twice.

**The first cost is the only cost. Nothing to Wear Out.** Nothing to break, being made of cast iron just like a kitchen range, and the Hover is of galvanized steel built to last a lifetime.

## Buckeye Standard Brooder Stoves

MADE IN TWO SIZES

### NUMBER 18

Height of stove  $20\frac{3}{4}$  inches; diameter of stove  $10\frac{3}{4}$  inches; diameter of base  $11\frac{1}{2}$  inches. Fire-proof base 7 inches high with corrugated asbestos pad attached to lower plate and 1 inch air space between asbestos pad and floor.

**Grates.** Rocker furnace type made of solid casting, outside clearance, free burning, self-cleaning and anti-clog. Diameter  $7\frac{1}{2}$  inches.

**Hover.** Galvanized steel 42 inches in diameter, removable, mounted on a substantial ring casting that rests on the top of the stove, moulded to fit and cannot be displaced. Furnished complete with rope and pulley for quick attachment.

Capacity any number of newly hatched chicks up to 500.  
Shipping weight, 75 lbs. Price, \$22.50.

### NUMBER 19

Height of stove  $22\frac{1}{2}$  inches; diameter 12 inches; diameter of base  $11\frac{1}{2}$  inches. Fire-proof base 7 inches high with corrugated asbestos pad attached to lower plate and 1 inch air space between asbestos pad and floor.

**Grates.** Rocker furnace type made of solid casting, outside clearance, free burning, self-cleaning and anti-clog. Diameter 9 inches.

**Hover.** Galvanized steel 52 inches in diameter, removable, mounted on a substantial ring casting that rests on the top of the stove, moulded to fit and cannot be displaced. Furnished complete with rope and pulleys for quick attachment.

Capacity any number of newly hatched chicks up to 1000.  
Shipping weight, 94 lbs. Price, \$27.50.

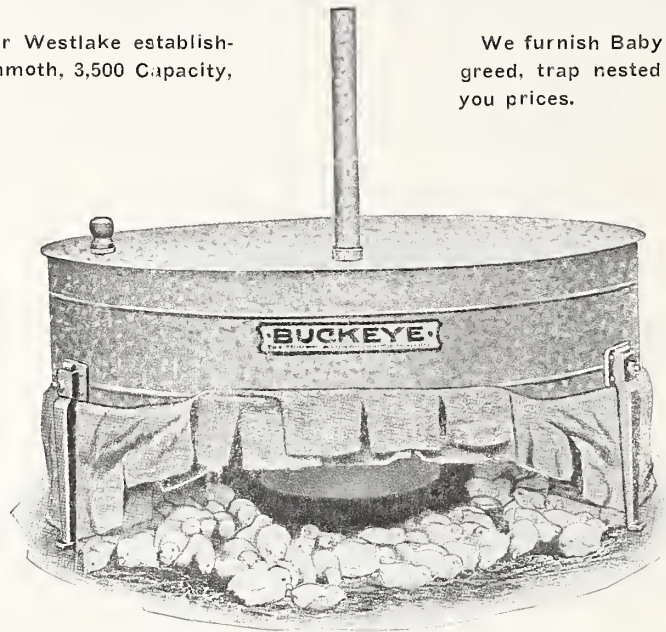
Randall knows the care taken in building Buckeye goods. He has seen them built from start to finish



# BUCKEYE PORTABLE BROODERS

When in town, drop in at our Westlake establishment and see our Buckeye Mammoth, 3,500 Capacity, Incubator hatching daily.

We furnish Baby Chicks from high producing, pedigreed, trap nested stock. Will be pleased to quote you prices.



## The Oil-Burner that Broods Like a Coal-Burner

It Is a Truly Wonderful Brooder—And It's Durable

Nothing about it is but metal—excepting the curtain—and that's interchangeable.

**THERE IS NO WASTE OF HEAT.** The dead air space keeps all the heat in and all the cold out. This construction insures the highest degree of efficiency, and we guarantee the satisfactory heating of every brooder in any inside temperature down to freezing.

**THE "BUCKEYE" LAMP IS NOT ENCLOSED.** This feature of the "Buckeye" Brooder is in itself one of the most valuable improvements ever made to an oil-burning brooder. It is, in fact, the improvement that makes the oil-burner just as safe as a coal-burning stove.

**FRESH AIR.** The constant current of fresh air over the lamp bowl prevents all possibility of overheating the oil, and absolute safety is the result. This improvement is just as good as an insurance policy. **IT'S THE FRESH AIR THAT MAKES THE CHICKS GROW.**

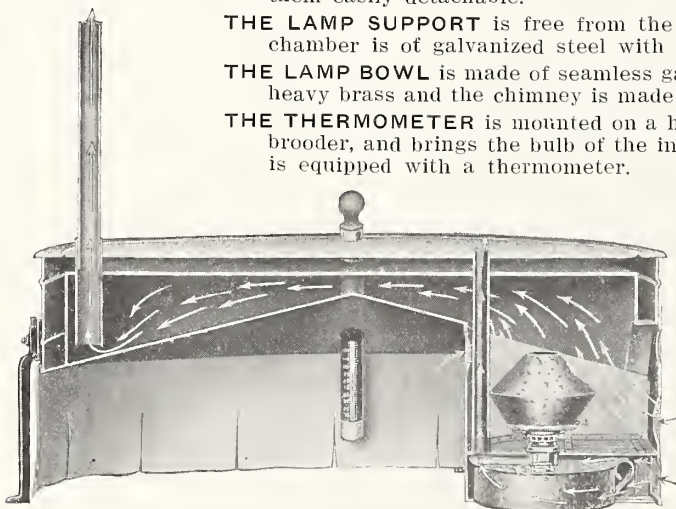
**THE OUTSIDE SHELL** is made of 28-gauge galvanized steel—the inside shell is 28 gauge black iron—with a one-inch dead air space between.

**THE BROODER BODY** is supported by three cast-iron Legs that are rigidly secured to the sides by a set nut, which makes them easily detachable.

**THE LAMP SUPPORT** is free from the floor and is welded to the plate above. The door to the lamp chamber is of galvanized steel with a large peep hole for the ready observation of the lamp.

**THE LAMP BOWL** is made of seamless galvanized steel—the burner is a "Miller"—all the fittings are of heavy brass and the chimney is made of sturdy black iron.

**THE THERMOMETER** is mounted on a hardwood turning which is dropped through the top of the brooder, and brings the bulb of the instrument right down to the level of the chicks. Each brooder is equipped with a thermometer.



Showing a Sectional View of the "Buckeye" Brooder

Note that every particle of air under the hover is drawn from the outside—then up into the upper chamber, where it is discharged through the exhaust tubes. Every particle of impurity is drawn up and out—nothing can come back.

PRICES	{	Made in Three Sizes	No. 20—Diameter 19 inches, 60 chicks.....	\$11.50
			No. 21—Diameter 22 inches, 100 chicks.....	14.50
			No. 22—Diameter 30 inches, 150 chicks.....	18.00

Price List of Extra Parts for Incubators and Brooders on Application

Randall knows the care taken in building Buckeye goods. He has seen them built from start to finish



## MOE'S WALL FOUNTAINS

A convenient and very popular style of fountain. Can be hung on the wall, out of the way. The style "A" is made with removable bottom, so that it can be easily cleaned. Made of galvanized iron.

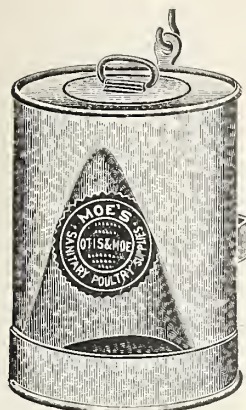
No. 26-A. Removable bottom. Capacity 1 gallon. Weight 2 lbs.....\$0.85  
No. 74. Permanent bottom. Capacity 5 gallons. Weight 6 lbs..... 2.50

## MOE'S STAR JAR FOUNTAIN AND FEEDER

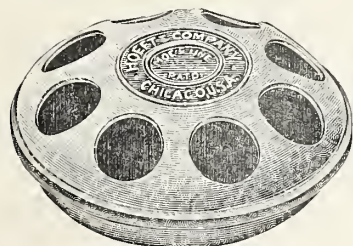
The most simple, practicable and durable Mason Jar Fountain on the market. Will fit pint, quart or half-gallon Mason jar. Manufactured of one piece of non-rusting metal. No parts to come unsoldered. Leaking impossible. Convenient, cheap and sanitary. Provides greater drinking surface than the round fountain. Little chicks cannot get drowned. Can be used for feed as well as water. One size only.

No. 32. Without Jar. Shipping weight 4 lbs. per dozen.

Price ..... Each, 20c; Doz., \$2.25



Moe's Wall Fountain



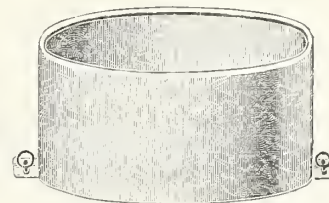
## MOE'S GRIT AND SHELL BOXES

Grit, shell and charcoal are recognized as an essential part of the diet. They cannot be more economically supplied than in one of these inexpensive compartment boxes.

No. 45. For baby chicks. Weight 1 lb.....\$0.50  
No. 9. For grown birds. Weight 3 lbs..... 1.15  
No. 90. For grown birds. Weight 3½ lbs..... 1.50



Star Fountain and Feeder



## FEED AND WATER DISH

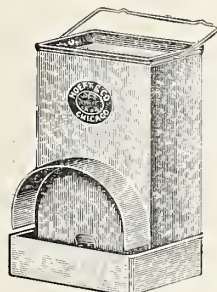
For feed or water for rabbits. Made of galvanized iron. Held to floor of hutch by a simple locking device, easy to remove for cleaning.

No. 46. Weight ½ lb.....25c

## BABY CHICK FEEDER

Cannot be upset, and chicks cannot get into it and contaminate the feed. Can also be used for water or milk.

No. 11. Diameter 6 in.....25c  
No. 12. Diameter 8¼ in.....40c



Drop Bottom

## MOE'S DROP BOTTOM WALL FOUNTAIN

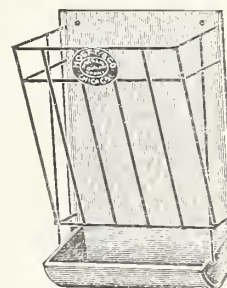
May be hung on the wall out of dirt and litter. Nothing to get out of order. Easy to fill and easy to clean. May be used for chicks, fowls or pigeons. Made of galvanized iron. Made in three sizes.

No. 40 Capacity 2 quarts. Weight 1½ lbs..... Price, F. O. B. Seattle, \$0.90  
No. 41. Capacity 1 gallon. Weight 2 lbs..... 1.10  
No. 42. Capacity 2 gallons. Weight 3 lbs..... 1.50

## MOE'S VEGETABLE AND HAY RACK FOR POULTRY AND RABBITS

For feeding roots, green food, sprouted oats, hay, etc. Keeps the food clean and prevents waste. Soon saves enough to pay for itself. Made of galvanized iron.

No. 44. Weight 1¾ lbs..... Price, F. O. B. Seattle, \$0.75



Feed Rack

## WATER AND FEED CUP

Holds about one pint, and hangs straight when applied to the coop. Can be attached to any exhibition coop. One size only.

No. 61. Weight ¾ lb.....\$0.20



## MOE'S TOP FILL FOUNTAINS

The double wall keeps water cool in summer and retards freezing in winter. Thoroughly sanitary and as easily cleaned as a pail. Can be hung up out of litter and square pan prevents spilling.

No. 1. Top Fill Fountain. 1 gallon. Weight 4 lbs.....\$2.00  
No. 2. Top Fill Fountain. 2 gallons. Weight 5 lbs..... 2.90  
No. 4. Top Fill Fountain. 4 gallons. Weight 8 lbs..... 3.75

## MOE'S DRY MASH HOPPER

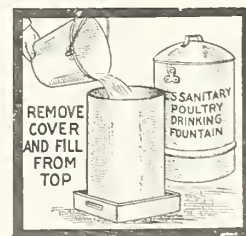
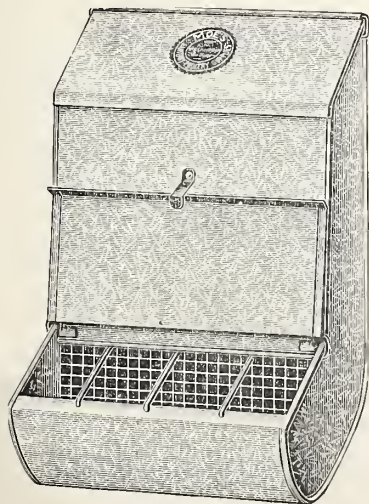
The curved bottom of the hopper keeps the feed within easy reach of the birds. The gradual enlargement from top to base prevents clogging. The wire grid and the wires running from the flange through the wire grid prevent any chance of the fowls throwing out or wasting the feed. The sloping cover prevents the birds from roosting on the hopper. When both covers are closed it is rat and mouse proof.

No. 35. Width 8½ in. Wt. 4 lbs.....\$1.50  
No. 36. Width 12 in. Wt. 5 lbs..... 2.10  
No. 37. Width 24 in. Wt. 11 lbs..... 2.75

## SANITARY FEEDING TROUGHS

Can be used for feed, wet mash or water. Barred top prevents wasting of food. Made of best grade of galvanized iron in three sizes.

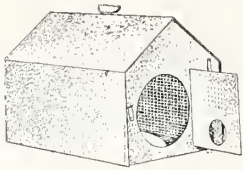
No. 21. 12 inches long. Wt. 1 lb.....\$0.65  
No. 22. 18 inches long. Wt. 1¾ lb..... .90  
No. 23. 24 inches long. Wt. 2¼ lb..... 1.20



REMOVE COVER AND FILL FROM TOP





**METAL BROOD COOP**

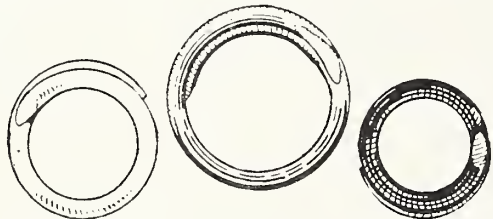
A complete home for the hen and her brood. Removable bottom for sanitation. Combination door for ventilation, to keep the hen inside and give the chicks their liberty, for absolute protection

against animals and weather, and to keep the chicks in. It is collapsible and can be stored in small space. Made of heavy galvanized iron. Made in one size only; 16 inches wide, 23 inches long and 16 inches high. No. 49. Weight 6 lbs. \$3.25

**MOE'S SCRAPER AND CLEANER**

Made of one piece of galvanized iron. Just the thing for cleaning brood coops, nests, dropping boards, rabbit hutches, etc. You can get into the corners with it.

No. 47. Length 10 inches. Weight 3/4 lb. \$0.30



American Asiatic Mediterranean

**MOE'S KEY RING LEG BANDS**

Made of celluloid in six sizes. The three larger sizes are exact size of above etchings. The largest size is for very large birds, including Asiatic Fowls and Turkeys. The next size is for American Fowls, including Rhode Island Reds and birds of similar size. The smaller cut represents the size for Leghorns and other Mediterraneans. The three smaller sizes are for Bantams, Pigeons and Baby Chicks. When ordering, name breed wanted for and we will send correct size.

They are made in ten colors, as follows: Black, White, Dark Blue, Pink, Light Blue, Red, Garnet, Green, Yellow and Purple.

Prices, Asiatic, American, Mediterranean and Bantam Sizes

12 Bands	25 Bands	50 Bands	100 Bands	500 Bands	1000 Bands
\$0.20	\$0.30	\$0.50	\$0.85	\$3.60	\$7.00

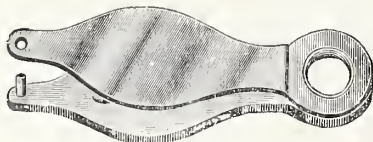
Prices, Pigeon and Baby Chick Sizes

.15	.20	.40	.75	2.50	4.50
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An aluminum leg band, adjustable to any size required, and fastened very securely. Made in two sizes; No. 1 for ordinary hens, and No. 2 for males and very large hens.

Price, either size 25 bands, 30c; 100 bands, 75c

**POULTRY PUNCH**

A poultry punch for marking baby chicks. Punches a clean hole in the web between the toes. Will not bruise the foot. Postpaid, 25c

**NEST EGGS**

Best grade china nest eggs. Weight, per dozen, 3/4 lb. Price, postage additional. 5c each; dozen, 40c

**EARTHENWARE RABBIT DISHES**

Size 2 3/4 x 6 in. Weight 2 1/2 lbs. each. Each, 35c; doz., \$3.50  
Size 3 x 8 in. Weight 3 1/4 lbs. each. Each, 50c; doz., \$5.00

No prices shown in this catalog include Postage, Freight, Express or Delivery Charges unless so specified.

**McCANDLISH IMPROVED CHICK FEEDER**

PATENTED JULY 17, 1917 -- NO. 1234054

EQUIPPED WITH  
ADJUSTABLE PARTI-  
TIONS FOR VARIOUS  
KINDS OF FEED

AN IDEAL DRINKING  
RECEPTACLE ALSO



MADE OF  
GALVANIZED IRON  
NO ROUGH EDGES  
WASTE IMPOSSIBLE  
CAN'T CAPSIZE

LENGTHS  
12, 20 AND 30 IN.

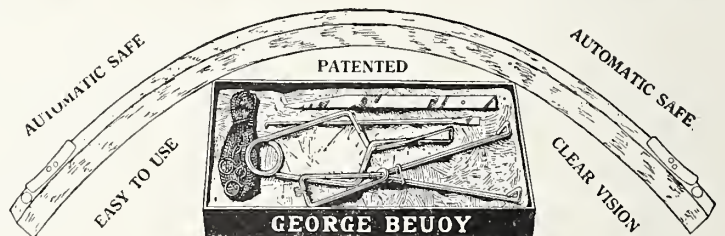
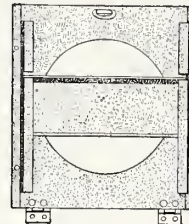
PRICES  
35, 50 & 75 CTS.

REVOLVING ROD PREVENTS THE CHICKS FROM PERCHING UPON IT, MAKING THE FEEDER ABSOLUTELY SANITARY

**MOE'S TRAP NEST FRONT**

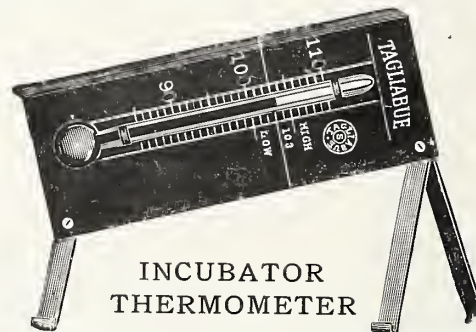
This new and inexpensive device meets a popular demand. With it an old box may be converted into a trap nest at small expense. Simple in operation, with no small parts to get out of order. The front works on hinges, making it easy to remove the birds or clean the nest. Made of galvanized iron; 11 inches wide, 12 inches high.

No. 63. Weight 1 1/4 lbs. \$0.50

**CAPONIZING SET**

Caponizing is becoming more generally practiced each season, and is a simple and very profitable operation. We consider the George Beuoy Caponizing Set the best and most practical. It consists of Automatic Remover, Humane Spreader, Capon Bow, Knife, Hook Probe, and Capon Book.

Price, postpaid \$5.50

**INCUBATOR THERMOMETER**

One of the very best incubator Thermometers made; thoroughly tested and seasoned. Fits all standard makes of incubators. Stands on egg tray or may be hung up. Postpaid 85c

**BROODER THERMOMETER**

Thoroughly tested, seasoned and perfectly reliable. May be used in any brooder, brooder house or hover.

Price, postpaid 65c

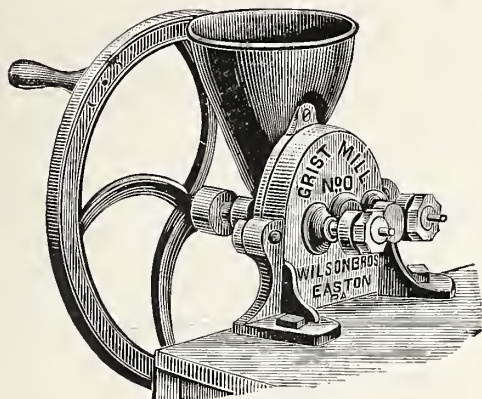
**EGG TESTER**

Made to use on lamp. Fits No. 2 Burner. Made of metal. Price, postpaid 40c

**WIRE HEN'S NEST**

Strongly made of wire, to hang on the wall. No place for mites to harbor. Weight 10 ozs. Each, 25c; doz., \$2.50





No. 0 Grist Mill

also be adjusted for cracking the grain if desired. It is not to be compared with those made on the old style coffee mill principle. The grinding surfaces are of very hard material, especially made for this purpose, and are ground off perfectly true and will last for years. No. 0 Wilson's Family Grist Mill. Weight 30 lbs. Price, F. O. B. Seattle, \$6.75

## MANN'S PATTERN BONE CUTTER

No. 7 Mann's Pattern Bone Cutter. Has heavy fly wheel, improved automatic feed, hinged cylinder  $7\frac{1}{4}$  inches in diameter and  $5\frac{1}{4}$  inches deep, and six perfectly tempered knives. Shelf provided on stand for receptacle to hold cut bone. With stand. Weight 110 lbs. Price, F. O. B. Seattle, \$25.00

No. 5-B Mann's Pattern Bone Cutter. Is similar to No. 7 but is smaller, has no legs, and is intended to bolt on a bench. Has large, heavy balance wheel, improved automatic feed and four perfectly tempered knives. Cylinder is 6 inches in diameter and 4 inches deep. Weight 85 lbs. Price, F. O. B. Seattle, \$17.25

## WILSON'S GRIST MILL

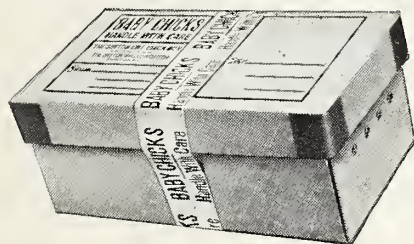
This mill is especially made for grinding graham flour or corn meal for table use. It can be adjusted for cracking the grain if desired. It is not to be compared with those made on the old style coffee mill principle. The grinding surfaces are of very hard material, especially made for this purpose, and are ground off perfectly true and will last for years. No. 0 Wilson's Family Grist Mill. Weight 30 lbs. Price, F. O. B. Seattle, \$6.75

## BANNER ROOT CUTTERS

No. 7 Banner Root Cutter. Furnishes green food for poultry during the winter. Will cut potatoes, turnips, beets, carrots, apples, etc., in long shaving-like strings, readily eaten by chickens. Weight 40 lbs. Price, F. O. B. Seattle, \$7.50

## CLOVER CUTTER

A strong, durable, well finished hand machine for cutting clover, hay, straw, corn fodder, etc., for poultry and stock. It has an eleven-inch knife, and an automatic feed that can be changed in a moment to three different lengths of cut. Kokosing Feed Cutter. Weight 190 lbs. Price, F. O. B. Seattle, \$18.00



## SEFTON LIVE CHICK BOXES

This box makes it possible to ship live chicks long distances by express with perfect safety. It is made from the best grade of corrugated paper, and is very strong. When not in use it is folded flat, and takes up very little room. Easily set up and made ready for use. Made in three sizes:

25 Chick Size. Each, 30c; dozen, \$2.70  
50 Chick Size. Each, 35c; dozen, 3.40  
100 Chick Size. Each, 55c; dozen, 5.30  
Weights, 10, 16 and 28 lbs. per dozen.

## EYRIE SHIPPING COOPS

A strong, light coop for shipping fancy fowls by express. Made in three parts. The top and bottom are made of wood and the body of one piece of corrugated paper. This strong construction enables the coop to resist hard knocks, making it practical in every way.



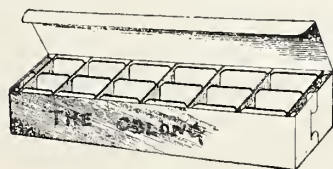
No. A. 16x12x18 in. Weight, doz., 54 lbs.  
Price, Each, 90c; dozen, \$8.75  
No. E. 24x20x22 in. Weight, doz., 125 lbs.  
Price, Each, \$1.75; dozen, \$16.75

## ANDERSON EGG BOXES

Made of corrugated paper and has double faced corrugated paper partitions to protect each individual egg. They fold flat and take up but little room when not in use. By sealing the box with

gummed strips which we furnish, pilfering or substitution of common eggs for fancy eggs while in transit is eliminated. May be shipped by either parcel post or express.

1 Setting Size. Weight 10 lbs. per doz. Price, F. O. B. Seattle, each, 25c; doz., \$2.25  
2 Setting Size. Weight 17 lbs. per doz. Price, F. O. B. Seattle, each, 35c; doz., 3.25  
50 Egg Size. Weight 28 lbs. per dozen. Price, F. O. B. Seattle, each, 50c; doz., 4.65  
100 Egg Size. Weight 48 lbs. per dozen. Price, F. O. B. Seattle, each, 80c; doz., 7.75



## GILT EDGE EGG SCALE

By separating the under-sized eggs you get fancy prices. This is the standard scale for grading eggs. Price, \$2.00

## MARKET EGG CARTON

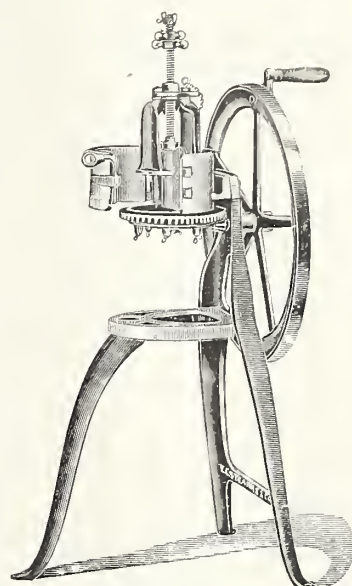
Saves handling and muss, and delivers eggs to market or customers in a neat, attractive manner. Packs in ordinary egg case, or may be handled individually. More convenient than the wide carton.

1 Dozen Size. Weight 3 lbs. per dozen. Price, F. O. B. Seattle, doz., 25c; 100, \$1.55

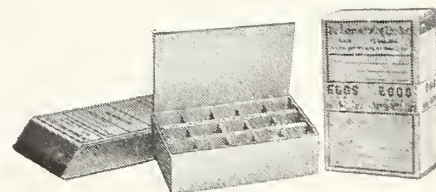
## PARCEL POST EGG BOXES

A strong box made of corrugated board, with corrugated board partitions, for shipping eggs by parcel post.

1 Dozen Size. Weight 5 lbs. per doz. Each, 15c; doz., \$1.20  
2 Dozen Size. Weight  $9\frac{1}{2}$  lbs. per doz. Each, 20c; doz., 2.00



No. 7 Bone Cutter





# POULTRY AND STOCK FOODS

## BREED-ENVIRONMENT-NOURISHMENT

Three Essentials for Success  
The Most Important of These Is

### PROPER FOOD



**R**ECENT YEARS have seen many of the old time traditions and uses in poultry culture swept aside and abandoned as useless and wasteful. Methods of housing that we thought ideal a few years ago have been superseded by more practical methods, making it easier to keep large flocks, at less expense and larger profits.

The feeding of poultry has also made wonderful advances, and today we are nearer the real solution of the ideal poultry ration than we thought possible even a year ago. This knowledge has not come to us through the efforts of any one individual, but from a steady and systematic grind of poultry and allied interests the country over. This, of course, had to be so. No industry could endure in the condition we were in up to recent years, for the prevailing prices of food stuffs would not allow for the huge waste that prevailed prior to what might be termed modern methods.

The one great outstanding fact that comes out of all this experimenting and research is that we do today know what is good and what is not good for poultry, and although some of us may close our eyes and refuse to see the facts, it is nevertheless a truth that we do so wilfully and without regard to the evidence available to all.

One of the greatest lessons that has been learned is that there is nothing as entirely misleading as the so-called "balanced ration"; that is to say, balanced on paper. Availability, digestibility, the source from which the nutrients are derived, fibre content and the method of application are absolutely a part of the necessary consideration in the balancing of the ration, and the man or men who make the statement that because a ration can be theoretically balanced without regard to these factors are misleading both themselves and the people they are advising. A theoretically balanced ration could be made of sawdust and fish scrap.

In offering you our feeds, we are doing so after a number of years of experience that has given us unusual opportunities to study poultry food and poultry feeding. We are trying the very best we know how to give you good, clean, digestible foods that will make your flocks profitable. We use nothing but high grade merchantable products. We do not buy or use any screenings, hulls, refuse, low-grade fibrous products or offal of any kind, and rather than do so we would stop making foods. At the present time there is very little profit in poultry foods made that way, but we believe that when times and conditions are again normal we shall reap the reward of our efforts.

### INVICTA CHICK FOOD

#### A Scratch Food for Baby Chicks

A chick that is started right has a wonderful lead over one that gets a poor start. The chick should, of course, be bred and hatched right, after which proper brooding and feeding are necessary.

In preparing Invicta Chick Food only the best of everything in wheat, corn, rice, oat groats, soy bean, etc., are used. Nothing that could not be eaten by a human being goes to make Invicta Chick Food. It cannot be made any better. Its nutritive ratio, coming as it does from cereal sources alone, cannot be a complete food, but used in conjunction with Invicta Milk Mash for Chicks, we guarantee its being a perfect ration. You make no mistake in feeding Invicta Chick Food. It is good and always will remain so.

Price, 4 lb. carton, 35c; 9 lb. carton, 65c; 25 lb. sack, \$1.50; 100 lb. sack, \$5.50.

Invicta Foods May Be Depended Upon.  
Always the Same. Always Good.



### INVICTA MILK MASH

#### For Young Chicks

To get quick and necessary growth to young stock it is imperative that an abundance of protein and carbonaceous matter be fed in a manner that makes it easy for the chick to use it up rapidly and without a too great tax upon the digestive organs.

This is most easily done by the use of a properly constituted mash food in connection with the regular grain chick food.

It will be easily seen that milk meal, meat meal, oil meal, bone meal and a number of other elements cannot be fed in the grain food, but are easily adaptable to a mash food. Invicta Milk Mash was a great favorite among poultrymen last season, and at one time we could not supply the demand. We are better equipped this season, and are prepared to take care of all orders.

Your chick raising troubles are greatly lessened when you use Invicta Milk Mash. It is the last word in an easily digested body, muscle and bone producing food.

Price, 8 lb. carton, 75c; 25 lb. sack, \$1.65; 100 lb. sack, \$5.75.

### INVICTA GROWING FOOD

#### A Scratch Food for Growing Stock

A great many people fail to appreciate the enormous demands made upon the food of the growing bird. When we consider the rapidity in which they mature, a rate that probably transcends any other living organism compared with the amount of food consumed, it will readily be seen that muscle, blood, bone and feather building materials must be available in large quantities. All food for growing chickens should have plenty of these elements, and in order to get the perfect growing ration a concentrated mash food must be fed in conjunction with the grain diet. This combination will produce wonders.

Price, 9 lb. carton, 60c; 25 lb. sack, \$1.40; 100 lb. sack, \$5.25.

### INVICTA GROWING MASH

#### Makes Bone, Blood and Muscle

This is a companion food with Invicta Growing Food. It contains an abundance of bone, meat, oil meal, milk meal, bone charcoal, in fact everything necessary for the growing chick.

It will help your young stock to feather out quickly and uniformly. It lays the foundation for a vigorous maturity. It will get the pullets into a laying stage without any danger of forcing. You may use Invicta Growing Mash with confidence, knowing that it will give results.

Price, 8 lb. carton, 50c; 25 lb. sack, \$1.25; 100 lb. sack, \$4.50.

Prices do not include delivery charges, and are subject to change. Write for periodical price lists.





### INVICTA SCRATCH FOOD

Scratch Food must be considered as the base upon which the other foods used are computed, that is to say, it will depend upon the grade of scratch food which you are using as to how much protein must be contained in the mash and side dishes, so to speak. If it contains light oats, barley, etc., you cannot afford to buy it, even at a low price.

We have a reputation for our Scratch Food. You try it. Price, 9 lb. carton, 50c; 25 lb. sack, \$1.15; 100 lb. sack, \$4.25.

### INVICTA EGG MASH

In conjunction with Scratch Food, this is the source of your egg supply. A good egg mash is comparatively easy to make, because it is easy to combine the various animal foods and oil-bearing meals. We use high grade meat meals, soy bean meal, oil meal, milk meal, oat meal, and other high grade food products that will produce an abundance of eggs naturally. We use no condiments or forcing food of any kind. Every article that goes into this food is a first class merchantable product.

Price, 25 lb. sack, \$1.00; 100 lb. sack, \$3.80.

### INVICTA FATTENING FOOD

Especially prepared for finishing off poultry. By using Fattening Food the surplus cockerels can be placed on the market in a condition that will warrant their bringing the best prices.

25 lbs., \$1.00; 100 lbs., \$3.80

### INVICTA PIGEON FOOD

This food is carefully made from such good, sound, seeds and grains as pigeons thrive upon, in correct proportions. It contains everything required by pigeons except grit, shell, charcoal, salt, green food and water, which should be provided separately.

25 lbs., \$1.35; 100 lbs., \$5.25

### INVICTA BIRD SEED

The highest grade mixed bird seed on the market. Contains Canary, Rape, Millet, Flax, and Hemp in proper proportions.

Price, 1 lb. package, 25c

### BIRD GRAVEL

Specially prepared for cage birds. All cage birds should be provided with good, sharp grit. Price, 1 lb. carton, 15c

### POULTRY OATS

A special grade of short, plump, heavy oats without beards and of high germination, suitable for sprouting or feeding.

Price, 25 lbs., \$1.10; 100 lbs. \$4.00

### GRANULATED BONE

Bone is high in nitrogen, and is a great aid to egg production and valuable as a muscle, tissue and bone builder, especially in young stock. Made in three sizes, hen size, chick size, and meal for mixing in mashes.

Prices, 5 lbs., 35c; 10 lbs., 60c; 25 lbs., \$1.25; 100 lbs., \$4.25

### MEAT SCRAP

High grade meat scrap manufactured by The Union Meat Co. Very high in protein. A superior meat scrap in every way.

Prices, 5 lbs., 45c; 10 lbs., 85c; 25 lbs., \$1.90; 100 lbs., \$7.00

### FISH MEAT MEAL

Prepared from the highest grade of fish by-products. Practically free from oil, and in a very edible condition. High in protein. A valuable egg producer. Practically odorless.

Prices, 5 lbs., 45c; 10 lbs., 75c; 25 lbs., \$1.75; 100 lbs., \$6.50

### ALFALFA MEAL

A splendid food for both poultry and stock. It is best scalded with boiling water, and then to a certain extent takes the place of green food. May be fed alone or mixed with the mash. Price, 25 lbs., 90c; 100 lbs., \$2.50

### INVICTA CALF MEAL

The stomach of a baby calf is a delicate organism, and any food used as a substitute for its natural milk food must be properly prepared and of a high quality.

Invicta Calf Meal is made from the choicest products, thoroughly cooked and ground. It has a sweet, toasted flavor greatly relished by calves. We take special pride in our Calf Meal, having gone to great pains to install a special cooker for its preparation. Your calves will thrive on Invicta Calf Meal—it is the best made.

Price, 8 lb. carton, 75c; 25 lb. sack, \$1.65

### INVICTA PIG MEAL

A pound of Invicta Pig Meal makes more than one gallon of rich slop for little pigs, equal to sow's milk. When Invicta Pig Meal is provided before and during the weaning period, that period is passed unnoticed by the pigs.

Weaning time is oftentimes a dangerous period in the life of the little pig. Invicta Pig Meal is intended to bridge over that crisis. It avoids the check that is often noticeable, caused by a radical change in diet.

It is not expensive. A twenty-five pound sack goes a long way. Give your piglets a treat—let them have Invicta.

Price, 8 lb. carton, 75c; 25 lb. sack, \$1.65

### INVICTA LAMB MEAL

A great help to young lambs, particularly orphans. Greatly relished by lambs until fully grown. By using Invicta Lamb Meal, many of the young stock that would otherwise be lost can be profitably raised.

Price, 8 lb. carton, 75c; 25 lb. sack, \$1.65

### INVICTA DOG MEAL

Especially prepared from a formula furnished by one of the leading dog men in this section. Contains an abundance of protein from animal food sources. Inexpensive and highly satisfactory.

Price, 8 lb. carton, 60c; 25 lbs., \$1.50

### INVICTA RABBIT FOOD

It is difficult to prepare a rabbit food to fulfill all requirements. This is intended as a general purpose food, to be used in conjunction with roughage.

Price, 8 lb. carton, 50c; 25 lb. sack, \$1.00; 100 lb. sack, \$3.75.

### O K COW FEED

We sell large quantities of O K Cow Feed, and it repeats wherever sold. We consider O K the ideal concentrate for milk production, and the many dairymen who have used it steady for years prefer it to any other food that they have been able to procure. It will give your cows a fair chance to produce. It is composed of Millrun, Rice Bran, Cottonseed Meal, Salt, Oats, Barley and Corn.

Price, 80 lb. sack, \$2.85

### O K HOG FEED

Specially prepared to produce a maximum of fat at small cost. It is uniform in quality, and many of the large hog men in this locality feed it regularly. Where swill is a part of the diet, O K Hog Feed will be found more advantageous than using straight mill feed. The quality is right and the price is right.

Price, 80 lb. sack, \$2.85

### OIL CAKE MEAL

A highly concentrated food, valuable for feeding in small quantities to cattle, horses and hogs. Price, 100 lbs., \$5.00

### GROUND FLAX SEED

An excellent conditioner for horses and cattle. Makes the coat sleek and glossy. Also good for poultry.

Price, per lb., 20c





**GRANULATED CHARCOAL**

A great aid to digestion. Absorbs the gases of the stomach. Valuable for poultry and hogs. Made in two sizes, hen size and chick size.....Price, 4-lb. carton, 35c; 50 lbs., \$2.50

**EASTERN OYSTER SHELL**

Very high in carbonate of lime. A nice, white, clean looking shell, palatable and of high quality.....Price, 8-lb. carton, 35c; 100 lbs., \$2.00

**WESTERN OYSTER SHELL**

This is Toke Point oyster shell, thoroughly seasoned and well graded. Far superior to clam shell.....Price, 100 lbs., \$1.75

**LIMESTONE GRIT**

A valuable masticator and lime source. Two sizes; for mature stock and for chicks.....10 lbs., 20c; 100 lbs., \$1.25

**ALFALFA LEAVES AND BLOSSOMS**

The supply is uncertain. None available at time of going to press. Write in regard to stock and prices.

**SOY BEAN MEAL**

One of the most valuable of the oil meals. Easy of digestion. Rich in protein. One of the few oil meals that can be used for any kind of stock.....10 lbs., 60c; 25 lbs., \$1.50; 100 lbs., \$5.50

**DIGESTER TANKAGE**

All hog men know the value of digester tankage, both for breeding sows and for finishing off market stock. It helps the little pigs over the danger stage, too.....100 lbs., \$6.50

**MEDICATED SALT**

For rabbits, hogs and other stock. Has medicinal qualities, and is a valuable expellant of worms.....Per brick, about 3 lbs., 35c

All prices are subject to change without notice, and do not include delivery charges unless so specified.

**POULTRY AND STOCK REMEDIES AND TONICS****INVICTA POULTRY CONDITIONER**

A valuable aid to egg production. Can be fed to laying hens and will increase the egg yield without any evil effects. It is more of a food than a stimulant, and will build up bone, muscle and feathers in growing stock. It is particularly valuable during the moulting season and in cold, damp weather. It will ward off sickness by strengthening and toning up the system.....Price, 1½-lb. carton, 30c; 4 lbs., 60c; 10 lbs., \$1.25; 25-lb. sack, \$2.75, F. O. B. Seattle.

**POULTRY PEPPER**

A great appetizer. A small amount of pepper in the morning mash, especially during cold weather, will greatly aid the birds in warding off chills. It should not be used too freely.....Price, 1-lb. carton, 30c; 2-lb. carton, 50c

**INVICTA LICE POWDER**

The most successful lice powder yet offered. It contains sodium fluoride and naphthol especially compounded for use on poultry. Sodium fluoride has proven to be the greatest destroyer of lice on poultry yet discovered, and is endorsed by the U. S. Department of Agriculture. Directions for use on packages.....Price, 1-lb. package, 30c

**INVICTA LICE LIQUID**

For use on roosts, dropping boards, nest boxes, or wherever parasites may congregate. Invicta Lice Liquid is high in phenols, specially distilled for this purpose. Not to be confused with the cheap, low-grade lice sprays being offered. Directions for use on each can.....Price, Quart, 50c; Half-gallon, 85c; Gallon, \$1.50

**INVICTA FLY LIQUID**

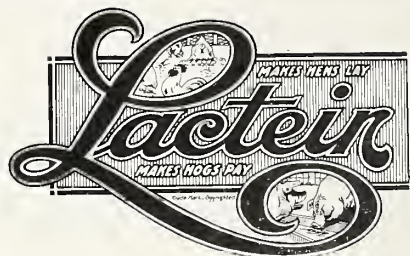
Of great benefit to cattle and hogs during fly season. Can be used freely on cows without danger of gumming the coat or tainting the milk. Cows that are irritated by flies cannot give the best results. Full directions on each can.....Price, Quart, 50c; Half-gallon, 85c; gallon, \$1.50

**CREOSOTE**

Used as a preservative, germ destroyer, and for general insecticidal and germicidal purposes around the farm.....Gallon, \$1.00

**CARBOLINEUM**

Preserves wood, kills germs and destroys insects. A valuable disinfectant.....Quart, 60c; Gallon, \$1.85; 5 Gal., \$8.75



Lactein is a condensed milk product, made from butter-milk, skim milk and whey, blended together, pasteurized, and the lactic acid bacteria bred or developed to their very highest degree before the product is condensed by special process which retains all the health giving food and tonic values without the useless bulk of water.

It is a great egg producer, a splendid adjunct to the poultry ration, and is equally valuable for hogs, calves, dogs, rabbits, turkeys, ducks, and geese.....Price, 5-gal. keg, \$4.00; 10-gal. keg, \$7.50; 50-gal. keg, \$32.50

**"CANE MOLA" STOCK FEEDING MOLASSES**

A superior grade of sugar cane molasses, and an economical source of carbohydrates in the ration. One barrel of "Cane Mola" contains 330 lbs. of sugar in addition to other nutritive elements. In addition to its food value, it is a splendid conditioner for cattle, horses and hogs. Shipping weight 700 lbs.....Price, per barrel, F. O. B. Seattle, \$22.50

**LESLIE'S SALT LICK**

Especially prepared for cattle and hogs. In the form of bricks, compressed very hard. Does not disintegrate.....Per brick, about 5 lbs., 20c

**KOW KURE**

The greatest specific yet discovered for barrenness, scours, milk fever, caked udder, bloating, red water, and swollen bag in cows. Unquestionably the most valuable cow medicine ever offered.....Price, 1¼-lb. can, 60c; 3½-lb. can, \$1.20

**LICENE**

An excellent antidote for body lice on fowls. In paste form, in collapsible tubes. Easy to apply and very effective.....Price, per tube, 60c

**ZENOLEUM**

The standard disinfectant for use around barns, stables, out houses, cess pools, sinks, drains, in fact anywhere that germs may prevail. Cleansing, purifying, healing. Emulsifies in water easily. Valuable for wounds, cuts, sores, burns, etc., on animals or humans.....Price, 8-oz. bottle, 30c; quart, 60c; half-gal., \$1.10; gal., \$1.85

**CONKEY'S ROUP REMEDY**

Roup is the most common contagious disease of the poultry yard. When cold, damp weather starts, colds will appear, and these are likely to develop into roup, with fatal results. This remedy should be used as a preventive.....Price, small package, 30c; medium, 60c; large, \$1.10

**CONKEY'S WHITE DIARRHOEA REMEDY**

Will help save your chicks from this fatal, contagious chick disease. Price, small pkg, 30c; medium, 60c; large, \$1.10

**WATERGLASS**

The universal egg preserver. Inexpensive, simple and effectual.....Price, Quart, 35c; half-gallon, 60c; gallon, \$1.00

**PRE-EGG-SERVER WATERGLASS**

A dry, granulated form of Waterglass. One package is sufficient to preserve fifteen dozen eggs in a five-gallon crock.....Price, per package, 20c

**FORMALDEHYDE**

For treatment of potatoes and grain for scab and smut.....Price, Pint, 65c; quart, \$1.15; gallon, \$3.80

**TREE TANGLEFOOT**

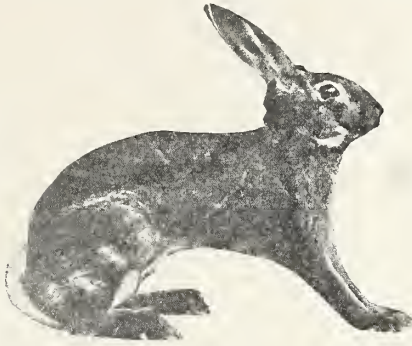
A safeguard against gypsy, brown tail and tussock moth, caterpillars and other creeping insects. Applied as a band around the tree.....Price, 1-lb. can, 60c



## CALDWELL'S RABBIT REMEDIES

Tonic and Regulator.....  
..... 75c  
Slobber Remedy .....50c  
Snuffle Remedy.....\$1.00  
Buck Tonic .....\$1.00  
Postage additional

We will be pleased at all times to advise you in regard to any difficulties that you may have with your stock and poultry.



## PRATT'S REMEDIES

Roup Remedy. Tablets or Powder.....  
..... Small, 30c; medium, 60c; large, \$1.20  
Cow Remedy. Small package, 60c; large package, \$1.20; 12-lb. pail, \$2.75; 25-lb. pail, \$5.00  
Head Lice Ointment ..... Package, 30c  
White Diarrhoea Remedy .....  
..... Small package, 30c; large package, 60c  
Cholera Remedy..... Small package, 30c; large package, 60c  
Bronchitis Remedy ..... Small package, 30c; large package, 60c  
Gape Remedy ..... Small package, 30c; large package, 60c  
Sore Head or Chicken Pox Remedy .....  
..... Small package, 30c; large package, 60c  
Scaly Leg Remedy ..... Small package, 30c; large package, 60c  
Lice Salve ..... Small package, 30c; large package, 60c  
Bag Ointment ..... Small package, 35c; large package, 70c

## LEE'S REMEDIES

Germozone. Liquid and Tablets .....  
4-oz. bottle, 40c; 12-oz. bottle, 75c; Tablets, per package, 75c  
Headlice Ointment ..... Per box, 15c

## SPRATT'S PATENT FOODS AND REMEDIES

We are selling agents for these famous preparations which have the endorsement of the big breeders and fanciers, and are the standard in their line. We can only list a few items in this catalog, but will mail, for a stamp, to dog owners, "Spratt's Dog Culture," which gives reliable advice and information on the care of dogs, and tells about Spratt's preparations.

### SPRATT'S BIRD FOODS, REMEDIES, ETC.

Spratt's Bird Tonic. For the prevention and cure of all diseases of cage birds..... Price, 25c  
Spratt's Bird Lice Destroyer. For dusting the feathers ..... 25c  
Spratt's Cod Liver Oil Nestling Food. For feeding young birds and old birds in the moulting season. A tonic and a flesh and bone maker. Unequalled as an aid to feather growth..... 25c  
Spratt's Color Food. (Red or Orange.) Deepens and intensifies the natural color of the plumage ..... 25c  
Spratt's Song Restorer. A treat and a tonic for canaries, linnets and all seed eating birds. 25c

Spratt's Aquarium Fish Food. The only aquarium fish food that does not foul the water..... 15c



### SPRATT'S DOG FOODS AND REMEDIES

Spratt's Dog Cakes. The standard dog food. Used at the leading kennels and dog shows throughout the world. A staple and constant food for all breeds of dogs. Prices, Carton, 40c; 5-lb. bag, 80c; 10 lbs., \$1.50; 25 lbs., \$3.40; 50 lbs., \$5.30; 100 lbs., \$12.10, F. O. B. Seattle.  
Spratt's Puppy Cakes. A perfect and whole food for puppies of all breeds. Price, Carton, 40c; 5-lb. bag, 85c; 10 lbs., \$1.60; 25 lbs., \$3.50; 50 lbs., \$6.65; 100 lbs., \$12.85.  
Spratt's Plain Puppy Meal. The standard weaning food. This meal should be used before, during and after the weaning period to insure large, vigorous and healthy puppies. Also good for dogs of any age when out of condition. Prices, carton, 40c; 5-lb. bag, 80c; 10 lbs., \$1.45; 25 lbs., \$3.40; 50 lbs., \$6.30; 100 lbs., \$12.10, F. O. B. Seattle.  
Spratt's Fibo. Can be fed with fine results as a staple diet, especially for the smaller breeds, or makes an excellent change in diet for any dog. Prices, carton, 40c; 5-lb. bag, 90c; 10 lbs., \$1.75; 25 lbs., \$4.25; 50 lbs., \$7.80; 100 lbs., \$15.20.  
Spratt's Improved Midget Biscuits. A wonderful and wholesome biscuit for toy dogs, puppies, etc. Try them once and you will surely order them again. Price, carton, 40c. Quantity, prices quoted on application.  
Spratt's Rodnim. The best granulated dog food. Can be fed dry or moistened with water, milk or gravy. Recommended as a change from the regular Dog Cakes. Prices, 10 lbs, \$1.90; 25 lbs., \$4.50; 50 lbs., \$8.50; 100 lbs., \$16.00.

### SPRATT'S CAT FOODS AND REMEDIES

Spratt's Cat Food. A complete and staple food for cats. Used at the leading catteries throughout the world. Carton, 40c  
Spratt's Fish Cat Food. Used as a change of diet, especially during the summer months..... Carton, 40c

### SPRATT'S CHICK MEAL NO. 5

A baked biscuit meal. Reduces mortality to a minimum. Starts to digest within an hour, and baby chicks derive quick nourishment and growing elements. Alternate with a good grain mixture and you keep them growing all the time. Price, carton, 40c; 10 lbs., \$1.20; 25 lbs., \$2.90; 50 lbs., \$5.55; 100 lbs., \$10.75.

### SPRATT'S MAXCO

A meat food especially prepared to take the place of grubs and insects for pheasants and game birds of all kinds.  
..... 10 lbs., \$1.30; 25 lbs., \$3.10; 50 lbs., \$5.85; 100 lbs., \$11.50

Spratt's Tonic and Condition Tablets. To build up after sickness and to put in form for bench show..... 50c  
Spratt's Distemper Tablets. Also a preventive..... 75c  
Spratt's Worm Capsules. The best expellent of round, maw, and tape worms ..... 50c  
Spratt's Mange Remedy ..... 50c  
Spratt's Alterative Cooling Tablets. For heated blood ..... 50c  
Spratt's Ear Canker Ointment. For both internal and external forms of this disease..... 50c  
Spratt's Eczema and Sarcotic Mange Remedy. Oily ..... 50c  
Spratt's Locurium Ointment. For wounds, cuts, bruises, etc. Good for man as well as beast ..... 50c  
Spratt's Chronic Skin Disease Tablets. For obstinate cases of mange and eczema..... 50c  
Spratt's Constipation Tablets. A laxative..... 50c  
Spratt's Digestive Tablets. For indigestion..... 50c  
Spratt's Diarrhoea Tablets. To relieve diarrhoea, which usually follows change of food, etc..... 50c  
Spratt's Dip. An excellent disinfectant. Should be used at every kennel. Keeps away fleas. An excellent hair stimulant, non-irritant, and does not injure the hair..... 50c  
Spratt's Patent White Dog Soap. For fleas, lice, etc. Entirely free from poison, and at the same time most effective in the destruction of lice and fleas. It keeps the skin free from scurf and prevents mange and other skin diseases. Leaves the coat smooth and glossy..... 25c

### SPRATT'S PHEASANT MEAL NO. 12

This food is used and highly recommended by all large breeders, including practically every state game farm in the country. Prices, carton, 40c; 10 lbs., \$1.20; 25 lbs., \$2.90; 50 lbs., \$5.85; 100 lbs., \$10.75, F. O. B. Seattle.

### SPRATT'S CRISSEL

Far superior to ordinary commercial beef scraps. Takes the place of insect life, and is the purest form of meat obtainable  
10 lbs., \$1.20; 25 lbs., \$2.85; 50 lbs., \$5.35; 100 lbs., \$10.50.





## BABY CHICKS

Our trap-nested line of baby chicks has been one of the greatest factors in building up our poultry business. Our strain of White Leghorns has been carefully selected and bred for more than eight years, and we have yet to hear of a disappointed customer.

Baby chicks are ready for delivery beginning March 1st. If you are in need of White Leghorns, Rhode Island Reds, Plymouth Rocks, or other popular breeds, write us for hatching dates and prices. We can serve you, and please you.

## HATCHING EGGS, BREEDING STOCK, RABBITS, ETC.

We are in close touch with the best poultry breeders in this section, and can furnish Hatching Eggs, Breeding Stock, Ducks, Geese, Turkeys, Pigeons, etc., of all the standard and popular breeds. We can also furnish Hares, Wild Mallard Duck Eggs, Pheasant Eggs, etc. We pack all shipments thoroughly to travel any distance, and guarantee satisfaction.

### HATCHING EGGS FROM THOROUGHbred STOCK

Price per setting of 15		per 100	Price per setting of 15		per 100
Anconas	\$3.00	\$18.00	Buff Orpington	\$3.50	\$20.00
Andalusian, Blue	3.00	18.00	Partridge Rock	4.00	23.00
Barred Plymouth Rock	3.00	18.00	Rhode Island Red	3.00	18.00
Black Spanish	5.00		White Orpington	3.50	20.00
Black Minorca	3.00	18.00	White Leghorn	2.50	15.00
Brown Leghorn	3.00	18.00	White Plymouth Rock	4.00	23.00
Buff Leghorn	3.00	18.00	White Wyandotte	4.00	23.00

### BREEDING STOCK

We can usually furnish high grade breeding stock in Poultry, Pigeons, and Rabbits, in the popular varieties. Write for prices, stating requirements.

### DUCK, GOOSE AND TURKEY EGGS

White Pekin	Per setting of 11, \$3.00; per 100, \$25.00
Indian Runner	Per setting of 12, \$3.00; per 100, \$22.50
Toulouse Goose Eggs	Each, 50c
Bronze Turkey Eggs	Each, 60c
Wild Mallard Duck Eggs	Per setting of 15, \$5.00

# PRINCESS FLOUR

## HARD WHEAT FLOUR

Our Princess Flour is of a very high quality, strong in gluten, and wonderful in absorption, which means more loaves and less work.

It is milled by a miller of forty years' experience in the famous Idaho wheat belt. The wheat is carefully selected, blended, then washed and dried to remove all foreign substances.

It is manufactured by the most scientific methods and sanitary machinery. Of very high patent, all low grade flour removed, nothing but the finest particles of the wheat berry used in its manufacture.

Most brands of flour have their special recipe. Princess has the common sense method of the good judgment of the housewife. She knows what she wants, and can get it with Princess. Note the texture when using this flour. Work in all the moisture possible, and in proofing the sponge, keep the dough in a warm place, avoid draughts and cover with a cloth. Temperature should be between eighty and one hundred degrees.

All we ask is that you try one sack. If your grocer does not have it, order direct from us. Write for prices on Princess Flour, Graham, Whole Wheat, Pancake, Farina, Corn Meal and Sanitary Bran.



## PERA CREAM SEPARATORS

In offering you the Pera Cream Separator, we do so with the absolute assurance that we are selling you the finest machine that we have ever handled. Some machines have their special features which are made much of by the manufacturers, and upon which the machines are sold. We claim that Pera is the simplest, strongest, most uniform operating, inexpensive, close skimming, most easily cleaned and satisfactory machine on the market.

The construction of the Pera is so simple that a person with no experience can take it to pieces and reassemble it without any difficulty. The oiling parts are easily accessible and can be taken care of with little trouble.

The skimming device is what is termed one piece construction, thereby eliminating a great deal of trouble both in cleaning and in lost parts.

It is exceedingly light running, and when once set in motion, is so perfectly balanced that the lightest turn on the crank handle will keep it going.

Pera comes in two sizes. No. 1, capacity 225 lbs. per hour, price \$85.00; and No. 2, 550 lbs. per hour, price \$120.00, F. O. B. Seattle.



Established 1918  
STRICTLY MODERN AND UP TO DATE  
SEATTLE, WASHINGTON

Established 1918

**STRICTLY MODERN AND UP TO DATE**

SEATTLE, WASHINGTON

Date.....192.....

(Write name very distinctly)

**Box No.**

.....

State

(Parcel Post, Express, Freight or Boat)

(Name of Express Office, Freight Station, or Boat Landing)

**Charges to be Prepaid or Collected at Destination**  
(Charges to a station at which there is no agent must be prepaid)

PLEASE WRITE NOTHING BUT THE ORDER AND SHIPPING INSTRUCTIONS  
ON THIS SHEET

Randall-McLoughlin exercises every precaution to grow and secure only the very best seeds, but gives no warranty, express or implied, as to description, quality, productiveness, or any other matter, of any Seeds, Bulbs or Plants they send out, and they will not be in any way responsible for the crop. If the purchaser does not accept the goods on these terms they are at once to be returned.

Nothing but orders should be written on this sheet. Please do not tear it in two

These columns not to be used by purchaser

AMOUNT ENCLOSED	
Money Order \$	.....
Draft \$	.....
Check \$	.....
Stamps \$	.....
Currency \$	.....
Coin \$	.....

## MAIL ORDER SHEET

[illegible]

Parcel Post, Express or Freight Charges

Amount carried forward



# PARCEL POST RATES

If goods are to be shipped by Parcel Post, except such as are listed in our catalog "Postpaid," an amount sufficient to pay postage at the following rates must be remitted with orders in addition to purchase price.

Weight	Local Handled through one P. O. or R.F.D. only	Zones						
		1st & 2nd Under 150 miles	3rd 150 to 300 miles	4th 300 to 600 miles	5th 600 to 1000 miles	6th 1000 to 1400 miles	7th 1400 to 1800 miles	8th Over 1800 miles
1 lb.	\$0.05	\$0.05	\$0.06	\$0.07	\$0.08	\$0.09	\$0.11	\$0.12
2 lbs.	.06	.06	.03	.11	.14	.17	.21	.24
3 lbs.	.06	.07	.10	.15	.20	.25	.31	.36
4 lbs.	.07	.08	.12	.19	.26	.33	.41	.48
5 lbs.	.07	.09	.14	.23	.32	.41	.51	.60
6 lbs.	.08	.10	.16	.27	.38	.49	.61	.72
7 lbs.	.08	.11	.18	.31	.44	.57	.71	.84
8 lbs.	.09	.12	.20	.35	.50	.65	.81	.96
9 lbs.	.09	.13	.22	.39	.56	.73	.91	1.08
10 lbs.	.10	.14	.24	.43	.62	.81	1.01	1.20
11 lbs.	.10	.15	.26	.47	.68	.89	1.11	1.32
12 lbs.	.11	.16	.28	.51	.74	.97	1.21	1.44
13 lbs.	.11	.17	.30	.55	.80	1.05	1.31	1.56
14 lbs.	.12	.18	.32	.59	.86	1.13	1.41	1.68
15 lbs.	.12	.19	.34	.63	.92	1.21	1.51	1.80
16 lbs.	.13	.20	.36	.67	.98	1.29	1.61	1.92
17 lbs.	.13	.21	.38	.71	1.04	1.37	1.71	2.04
18 lbs.	.14	.22	.40	.75	1.10	1.45	1.81	2.16
19 lbs.	.14	.23	.42	.79	1.16	1.53	1.91	2.28
20 lbs.	.15	.24	.44	.83	1.22	1.61	2.01	2.40
21 lbs.	.15	.25	.46	.87	1.28	1.69	2.01	2.52
22 lbs.	.16	.26	.48	.91	1.34	1.77	2.21	2.64
23 lbs.	.16	.27	.50	.95	1.40	1.85	2.31	2.76
24 lbs.	.17	.28	.52	.99	1.46	1.93	2.41	2.88
25 lbs.	.17	.29	.54	1.03	1.52	2.01	2.51	3.00
26 lbs.	.18	.30	.56	1.07	1.58	2.09	2.61	3.12
27 lbs.	.18	.31	.58	1.11	1.64	2.17	2.71	3.24
28 lbs.	.19	.32	.60	1.15	1.70	2.25	2.81	3.36
29 lbs.	.19	.33	.62	1.19	1.76	2.33	2.91	3.48
30 lbs.	.20	.34	.64	1.23	1.82	2.41	3.01	3.60
31 lbs.	.20	.35	.66	1.27	1.88	2.49	3.11	3.72
32 lbs.	.21	.36	.68	1.31	1.94	2.57	3.21	3.84
33 lbs.	.21	.37	.70	1.35	2.00	2.65	3.31	3.96
34 lbs.	.22	.38	.72	1.39	2.06	2.73	3.41	4.08
35 lbs.	.22	.39	.74	1.43	2.12	2.81	3.51	4.20
36 lbs.	.23	.40	.76	1.47	2.18	2.89	3.61	4.32
37 lbs.	.23	.41	.78	1.51	2.24	2.97	3.71	4.44
38 lbs.	.24	.42	.80	1.55	2.30	3.05	3.81	4.56
39 lbs.	.24	.43	.82	1.59	2.36	3.13	3.91	4.68
40 lbs.	.25	.44	.84	1.63	2.40	3.21	4.01	4.80
41 lbs.	.25	.45	.86	1.67	2.46	3.29	4.11	4.92
42 lbs.	.26	.46	.88	1.71	2.52	3.37	4.21	5.04
43 lbs.	.26	.47	.90	1.75	2.58	3.45	4.31	5.16
44 lbs.	.27	.48	.92	1.79	2.64	3.53	4.41	5.28
45 lbs.	.27	.49	.94	1.83	2.70	3.61	4.51	5.40
46 lbs.	.28	.50	.96	1.87	2.76	3.69	4.61	5.52
47 lbs.	.28	.51	.98	1.91	2.82	3.77	4.71	5.64
48 lbs.	.29	.52	1.00	1.95	2.88	3.85	4.81	5.76
49 lbs.	.29	.53	1.02	1.99	2.94	3.93	4.91	5.88
50 lbs.	.30	.54	1.04	2.03	3.00	4.01	5.01	6.00
51 lbs.	.30	.55	1.06					
52 lbs.	.31	.56	1.08					
53 lbs.	.31	.57	1.10					
54 lbs.	.32	.58	1.12					
55 lbs.	.32	.59	1.14					
56 lbs.	.33	.60	1.16					
57 lbs.	.33	.61	1.18					
58 lbs.	.34	.62	1.20					
59 lbs.	.34	.63	1.22					
60 lbs.	.35	.64	1.24					
61 lbs.	.35	.65	1.26					
62 lbs.	.36	.66	1.28					
63 lbs.	.36	.67	1.30					
64 lbs.	.37	.68	1.32					
65 lbs.	.37	.69	1.34					
66 lbs.	.38	.70	1.36					
67 lbs.	.38	.71	1.38					
68 lbs.	.39	.72	1.40					
69 lbs.	.39	.73	1.42					
70 lbs.	.40	.74	1.44					

Local Rate applies on parcels to be delivered from the office at which mailed or by Carrier or Rural Delivery from that office.

On parcels weighing eight ounces or less, containing Books, Seeds, Cuttings, Bulbs, Roots, Scions and Plants, the rate is one cent for each two ounces or fraction thereof, regardless of distance.

On parcels weighing four ounces or less, containing goods other than Books, Seeds, Cuttings, Bulbs, Roots, Scions and Plants, the rate is one cent for each ounce or fraction thereof, any distance.

Weight limit to offices within the first, second and third zones is seventy pounds for each package.

Weight limit to offices in other zones is fifty pounds for each package.

Limit of size of any package that will be accepted by parcel post is eighty-four inches in length and girth combined.

Eighth Zone rates apply to all offices in Alaska, Hawaii, Philippine Islands and Shanghai, China, with weight limit twenty pounds.

Eighth Zone rates apply to Canada, Mexico, Cuba and Panama, with weight limit four pounds six ounces. Twenty pounds can be sent to Mexico and Panama as Foreign Parcel Post.

Poisons and explosives cannot be shipped by parcel post. Liquids may be shipped by parcel post when specially packed to comply with requirements.

## MAIL ORDERS

Observance of the following suggestions will assist us greatly in filling orders promptly and satisfactorily.

**Order early.** During the spring planting time we are crowded to full capacity, and occasional delays and errors are bound to occur; also, late in the season, we are liable to be sold out of some stocks. It is to your advantage, as well as ours, to order before the spring rush.

**Use this order sheet.** By using this regular form for orders, delay and chance for errors will be avoided. Additional order blanks will be mailed on request.

Write name, address and shipping instruction in proper spaces very distinctly. We receive many orders with name or address omitted or illegible, and are unable to fill such orders until the purchasers inquire about them.

**Please do not write anything on the order sheet except the order and shipping instructions.** If it is necessary to write a letter it should be written on another sheet of paper. Correspondence is handled through another source, and letters written on the order sheet are liable to be overlooked.

**Remittance in full is required with all orders,** thus avoiding unnecessary expense, labor and confusion. Please do not ask us to ship goods C. O. D. If you expect to do a regular and extensive business with us, and wish to open an account with us, please make application to our treasurer, giving references and other information required by all business houses. Remittances should be made by Post Office Money Order, Bank Draft or Registered Letter. We will accept stamps in small amounts, but cannot be responsible for stamps, currency or coin lost in the mail.

**DO NOT FORGET TO ORDER MAG-O-TITE.**

It is almost impossible to grow Radishes, Cabbages, Onions, Turnips and Kale without it.



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Balm.....10	Cauliflower.....8, 21	Cucumber.....10	Mushroom.....12	Plants, Vegetable.....21	Squash.....18
Basil.....10	Celeriac.....8	Dill.....10	Muskmelon.....12	Potatoes.....21	Swiss Chard.....18
Beans.....3, 4	Celery.....8, 21	Egg Plant.....10	Mustard.....14	Pumpkin.....16	Thyme.....10
Beets.....4, 43	Celery Cabbage.....5	Endive.....10	Onion.....13	Radish.....16, 17	Tobacco.....20
Broccoli.....5	Chervil.....5	Horhound.....10	Onion Sets.....13	Rhubarb.....18, 37	Tomato.....19, 21
Brussels.....5	Chicory.....5	Horseradish.....21	Oyster Plant.....18	Ruta Baga.....20, 43	Turnip.....20, 43
Sprouts.....5, 21	Chives.....5, 21	Kale.....11, 21, 41	Parsley.....16, 21	Sage.....10	Vegetable Marrow.....18
Cabbage.....6, 21	Collards.....5	Kohl Rabi.....10	Parsnip.....14	Salsify.....18	Watermelon.....12
Cabbage, Chinese.....5	Coriander.....10	Lavender.....10	Peas.....14, 15, 42	Sea Kale Beet.....18	

## FLOWER SEEDS AND PLANTS

Achillea.....22	Canterbury.....22	Evening Primrose.....26	Jerusalem Cherry.....27	Nigella.....26	Snow-on-the-Mountain.....24
Acrolinum.....22	Bells.....23, 31	Everlasting.....22	Jerusalem Cross.....25	Oenothera.....26	Solanum.....27
African Daisy.....22	Cardinal Climber.....23	Flame Flower.....30	Job's Tears.....24	Paeonies.....31	Solidago.....25
Ageratum.....22	Carnation.....23, 31	Flax, Flowering.....25	Kochia.....25	Pansies.....26, 31	Statice.....27
Agrostemma.....22	Castor Oil Plant.....27	Floss Flower.....22	Kudzu Vine.....25	Palargonium.....24, 31	Stevia.....27
Alarsum.....22, 31	Catch Fly.....27	Forget-Me-Not.....25, 31	Lady Slipper.....23	Pentstemon.....26, 31	Stocks.....27, 31
Amaranthus.....22	Celosia Cristata.....23	Four O'Clock.....25	Lathyrus Lati- folius.....25	Perilla Nankin- ensis.....26	Straw Flower.....25, 27
Ampelopsis.....22	Centaurea.....24	Foxglove.....24, 31	Lavender.....31	Periwinkle.....30, 31	Sunflower.....30
Anemone.....22	Chrysanthemum.....24	Fringe Flower.....27	Larkspur.....24, 25, 31	Petunia.....26	Summer Cypress.....25
Antirrhinum.....22, 31	Cheiranthemum.....24	Fuchsias.....31	Lemon Verbena.....25	Phlox.....26, 31	Sun Plant.....26
Aquilegia.....22	Cheiri.....30	Gaillardia.....24, 31	Lily of the Valley.....31	Pinks.....24, 31	Sweet Peas.....27, 28, 29, 30
Arabis.....22	Cineraria.....24	Garden Heliotrope.....30	Linum.....25	Poppy.....26	Sweet Pea, Hardy.....25
Arctotis.....22	Cobaea Scandens.....24	Geranium.....24, 31	Lobelia.....25	Portulaca.....26	Sweet Rocket.....30
Asparagus.....23	Cockscomb.....23	Geum.....24	Love-in-a-Mist.....26	Pot Marigold.....23	Sweet William.....30, 31
Asters.....23, 31	Coix Lachrymae.....24	Gila.....24	Love-in-a-Puff.....23	Primrose.....26, 31	Thunbergia.....30
Avens.....24	Columbine.....22	Gilliflower.....27	Love-Lies-Bleed- ing.....22	Primula.....26	Tobacco, Flow- ering.....26
Baby's Breath.....25, 31	Convallaria.....31	Godetia.....24	Lupinus.....25	Pyrethrum.....26	Torch Lily.....30
Bachelor's Button.....24	Convolvulus.....24	Golden Feather.....26	Lychnis.....25	Red-hot Poker.....30, 31	Tufted Pansies.....31
Baloon Vine.....23	Coreopsis.....24, 31	Golden Rod.....25	Mad Wort.....22	Reseda.....25	Valeriana.....30
Balsam.....23	Cornflower.....24	Gourds.....25	Marigold.....25	Rhodanthe.....27	Verbena.....25, 30
Bellis.....23	Cosmos.....24	Grasses, Orna- mental.....25	Marshallmallow.....25	Ricinus.....27	Viola.....30, 31
Pelvedere.....25	Cups and Saucers Vine.....24	Gypsophila.....25, 31	Marvel of Peru.....25	Rock Cress.....22	Violets.....30, 31
Black-eyed Susan.....30	Cyclamen.....24	Helianthus.....25	Mesembryanth- mum.....25	Rose Campion.....25	Vinca.....30, 31
Bleeding Heart.....31	Cypress Vine.....25	Heliotrope.....25, 31	Mignonette.....25	Rose of Heaven.....22	Wallflower.....30, 31
Boston Ivy.....22	Dahlia.....24, 32, 33	Hesperis.....30	Milfoil.....22	Sage, Flowering.....27	Wild Cucumber.....24
Bouncing Bet.....27	Daisy, English.....24	Hibiscus.....25	Montbretia.....34	Salvia.....27, 31	Wild Garden Mixture.....30
Calendula.....23	Daisy, Shasta.....24	Hollyhock.....25	Moon Flower.....25	Salpiglossis.....27	Wind Flower.....22
California Poppy.....24	Delphinium.....24, 25, 31	Hop, Japanese.....25	Morning Glory.....24	Saponaria.....27	Wistaria.....30
Calla Lily.....34	Dianthus.....24, 30	Humulus.....25	Mourning Bride.....27	Scabiosa.....27	Yarrow.....22
Calliopsis.....23	Digitalis.....24, 31	Ice Plant.....25	Mullein Pink.....22	Schizanthus.....27	Zea.....30
Campanula.....23, 31	Echinocystis.....24	Ipomoea.....25	Myosotis.....25, 31	Sea Lavender.....27	Zinnia.....30
Canary Bird Vine.....23	Eschscholtzia.....24	Iris.....31	Nasturtiums.....25	Shasta Daisy.....24	
Candytuft.....23	Euphorbia.....24	Tritoma.....30, 31	Nicotiana.....26	Silene.....24	
Canna.....23	Evening Glory.....25			Smilax.....27	
				Snapdragon.....22, 31	

## NURSERY STOCK

Abelia.....36	Azalea Mollis.....36	Choisya Ternata.....36	Hypericum.....36	Mulberry.....39	Roses.....34, 35
Acacia.....37	Barberry.....36	Clematis.....36	Ivy.....36	Paeony Tree.....36	Snowball.....36
Acuba.....36	Beech.....37	Cotoneaster.....36	Jasamine.....36	Peach.....37, 38	Spirea.....36
Akebia Quinata.....36	Blackberry.....39	Crab Apple, Fl.....36	Juniper.....36	Pear.....37, 38	Spruce.....37
Almond.....36	Buddleia.....36	Curiant.....39	Kerria.....36	Phenomenal Berry.....39	Strawberry.....37
Althea.....36	Burning Bush.....36	Cypress.....37	Laurel.....36	Pine.....37	Sumach.....36
Ampelopsis.....36	Butternut.....39	Deutzia.....36	Laurastinus.....36	Plum.....37, 38	Tamarix.....36
Apple Trees.....38	Buxus.....36	Dogwood.....36	Lilac.....36	Poplar.....37	Thorn.....37
Apricot Trees.....39	Calycanthus.....36	Elm.....37	Linden.....37	Privet.....36	Tulip Tree.....37
Araucaria Im- bricata.....37	Calluna.....36	Euonymus.....36	Locust.....37	Prune.....38	Veronica.....36
Arborvitae.....37	Camellia.....36	Forsythia.....36	Loganberry.....39	Quince.....36, 39	Walnut.....39
Aristochia Siph- ophylla.....36	Catalpa.....37	Gooseberry.....39	Lonicera Nitida.....36	Raspberry.....39	Weigela.....36
Ash.....37	Cedar.....37	Grape.....39	Mahonia.....36	Retinospora.....37	Wisteria.....36
Asparagus.....37	Cherry.....38	Holly.....37	Maple.....37	Rhododendron.....36	Yew.....37
	Chestnut.....39	Honeysuckle.....36	Mock Orange.....36	Rhubarb.....37	
	Chestnut, Horse.....37	Hydrangea.....36	Mountain Ash.....37	Rose of Sharon.....36	

## GRAIN, GRASS AND CLOVER SEED

Alfalfa.....40	Carrots, Stock.....43	Headed.....41	Oats.....42	Ruta Baga.....43	Tall Meadow Oat Grass.....41
Alsike Clover.....40	Corn.....42	Kentucky Blue.....41	Orchard Grass.....41	Rye.....42	Timothy.....40
Barley.....42	Creeping Bent.....39, 41	Grass.....39, 40	Pasture Mixture.....40	Rye Grass, Eng- lish.....40	Turnips, Swede.....43
Beets, Stock.....43	Creeping Fescue.....41	Lawn Grass.....39	Peas, Field.....42	Rye Grass, It- alian.....40	Vetch.....42
Beets, Sugar.....43	Crested Dog's Tail.....41	Mixture.....39	Poultry Pasture Mixture.....40	Sudan Grass.....41	Wheat.....42
Bokhara.....40	Crimson Clover.....40	Mammoth Red Clover.....40	Rape, Dwarf.....41	Sunflower.....41	White Dutch Clover.....39, 40
Brome Grass.....41	Flax.....41	Mangels.....43	Essex.....41	Sweet Clover, White.....40	
Buckwheat.....41	Hay Mixture.....40	Marrow Cabbage.....41	Red Clover.....40		
Canadian Blue Grass.....41	Kafir Corn.....41	Meadow Fescue.....41	Red Fescue.....41		
	Kale, Thousand Millet.....41	Millet.....41	Red Top.....41		

## FERTILIZERS, SPRAYS, IMPLEMENTS, ETC.

Arsenate of Lead.....45	Formaldehyde.....60	Land Plaster.....43	Nitrate of Soda.....43	Shears, Pruning.....50	Tree Pruners.....50
Black Leaf 40.....45	Fungi-Bordeaux.....45	Lawn Mowers.....49	Paris Green.....45	Sheep Guano.....43	Tree Tanglefoot.....60
Blood and Bone.....43	Garden Tools.....49	Lawn, Rose and Fruit Fertilizer.....43	Planet Jr. Imple- ments.....47	Spades.....49	Tubs, Plant.....50
Bone Meal.....43	Glazing Points.....50	Lime.....43	Potash.....43	Sprays.....45	Vegetable Ferti- lizer.....43
Cider Mills.....48	Grafting Wax.....50	Lime Rock.....43	Potato Planters.....49	Spray Appliances.....46	Wheel Hoes.....47
Corn Planters.....49	Gypsum.....43	Ground.....43	Raffia.....49	Sprinklers, Lawn.....49	Wizard Fertilizer.....43
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Fish Fertilizer.....43	Labels, Pot.....50	Nico-Fume.....45	Shears, Grass.....49	Thermometers.....50	
Flour.....62	Labels, Tree.....50			Traps.....50	

## POULTRY AND STOCK SUPPLIES

Alfalfa Leaves and Blossoms.....60	Cat Foods and Remedies.....61	Egg Mash.....59	Incubators.....52	Pigeons.....62	Scraper and Cleaner.....56
Alfalfa Meal.....59	Charcoal, Gran.....60	Egg Testers.....56	Kow Kure.....60	Pigeon Food.....59	Scratch Food.....59
Baby Chicks.....62	Chicks.....62	Fattening Food.....59	Lactin.....60	Pig Meal.....59	Shell, Oyster.....60
Bird Foods and Remedies.....61	Chick Feeders.....55, 56	Feeding Troughs.....55	Lamb Meal.....59	Poultry Breeding Stock.....62	Soy Bean Meal.....60
Bird Gravel.....59	Chick Food.....58	Fish Meat Meal.....59	Lice.....60	Poultry Condi- tioner.....60	Stock Remedies.....61
Bird Seed.....59	Chick Meal.....61	Flax Seed, Ground.....59	Lice Liquid.....60	Poultry Punch.....56	Tankage, Digester.....56
Bone Cutter.....57	Clover Cutters.....57	Fly Liquid.....60	Lice Powder.....60	Poultry Remedies.....61	Thermometers.....56
Bone, Granulated.....59	Coops, Shipping.....57	Foods, Poultry and Stock.....58	Maxco.....61	Rabbits.....62	Trap Nest Fronts.....56
Boxes, Chick.....57	Cow Feed.....59	Goose Eggs.....62	Meat Scrap.....59	Rabbit Dishes.....56	Turkey Eggs.....62
Boxes, Egg.....57	Cressote.....60	Grist Mill.....57	Milk Mash.....58	Rabbit Foods.....59	Vegetable Racks.....55
Brood Coop.....56	Crissel.....61	Grit, Limestone.....60	Molasses.....60	Rabbit Remedies.....61	Wall Fountains.....55
Brooders.....51, 53, 54	Dog Foods and Remedies.....61	Grit and Shell Hoppers.....55	Nest Eggs.....56	Root Cutters.....57	Water Fountains.....55
Calf Meal.....59	Dog Meal.....59	Growing Food.....58	Nests, Wire.....56	Roup Remedy.....60, 61	Waterglass.....60
Caponizing Sets.....56	Dry Mash Hopper.....55	Hog Feed.....58	Oats, Poultry.....59	Salt.....60	White Diarrhoea Remedy.....60, 61
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